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standard contents

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1.	Euston 2158-9
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council. Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association.	

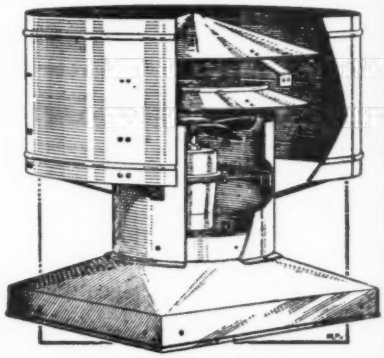
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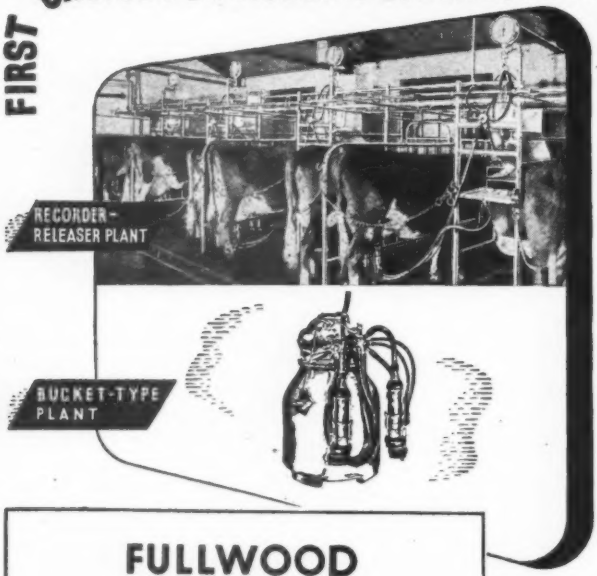
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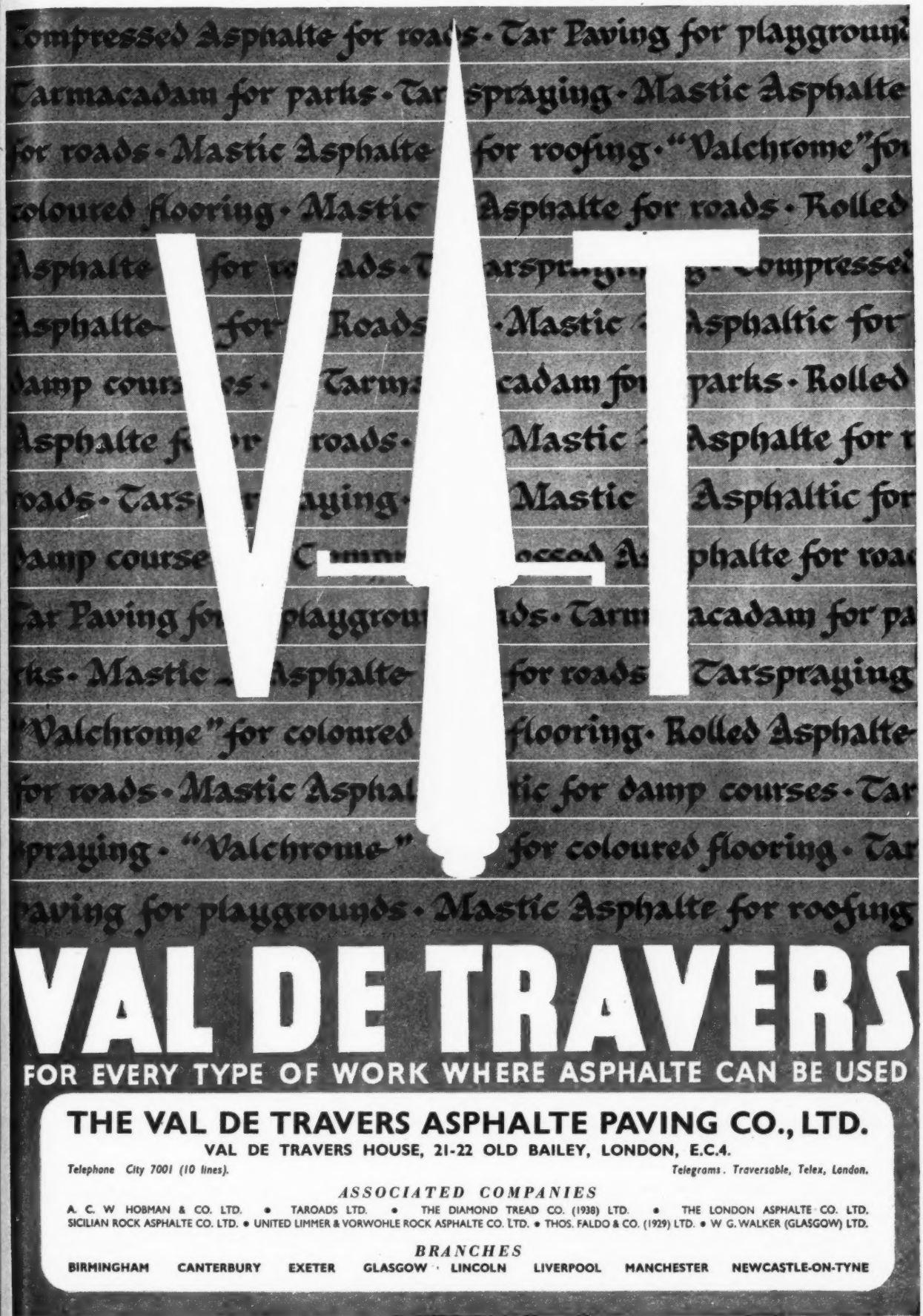
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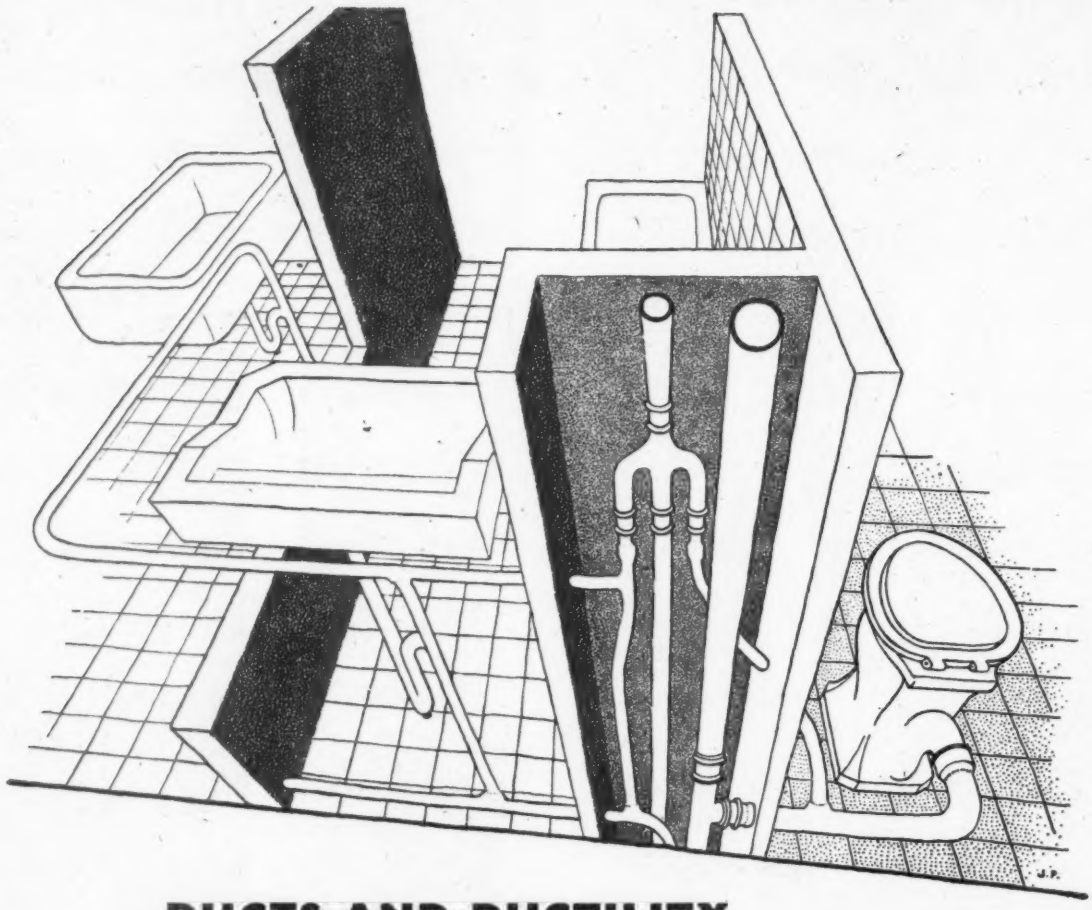
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h

LEAD

The Technical Information Bureau of the Lead Industries Development Council, which exists to give assistance on problems relating to the use of lead sheet and pipe in building work, will be pleased to give advice on any questions relating to the uses of the materials.

LEAD INDUSTRIES DEVELOPMENT COUNCIL, EAGLE HOUSE, JERMYN STREET, LONDON, SW1

LEAD TECHNICAL INFORMATION BUREAU, 25 LOWER BELGRAVE STREET, LONDON, SW1 TELEPHONE: SLOANE 0474

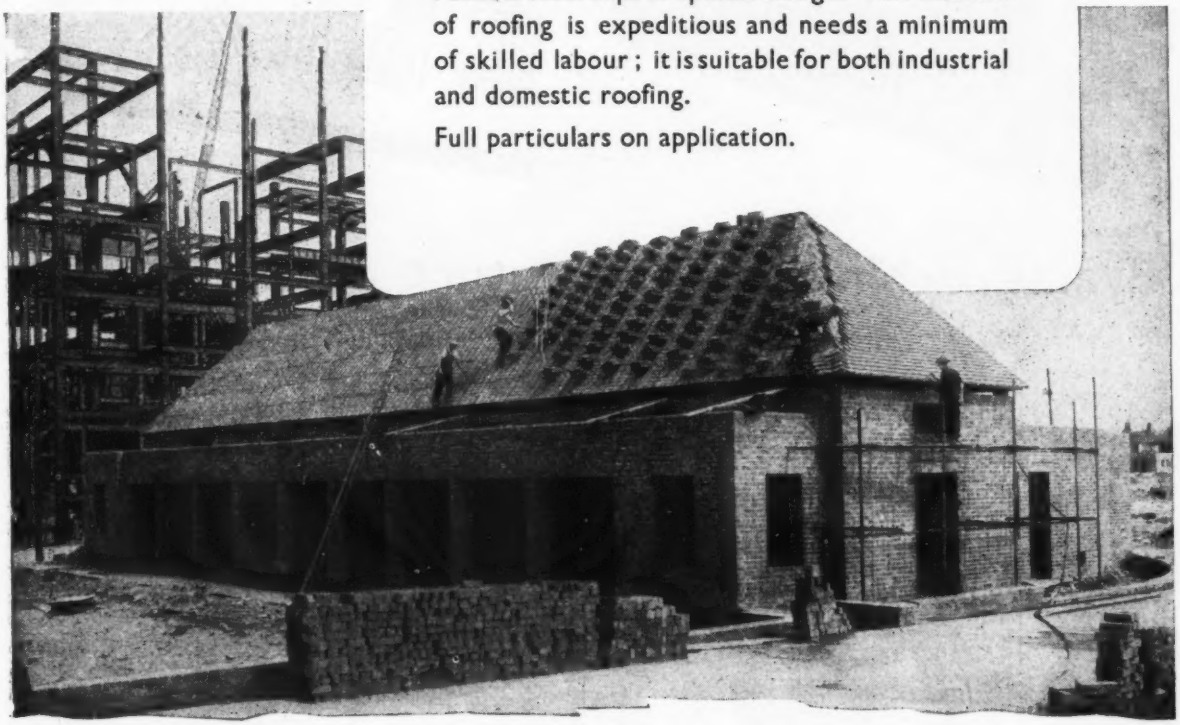
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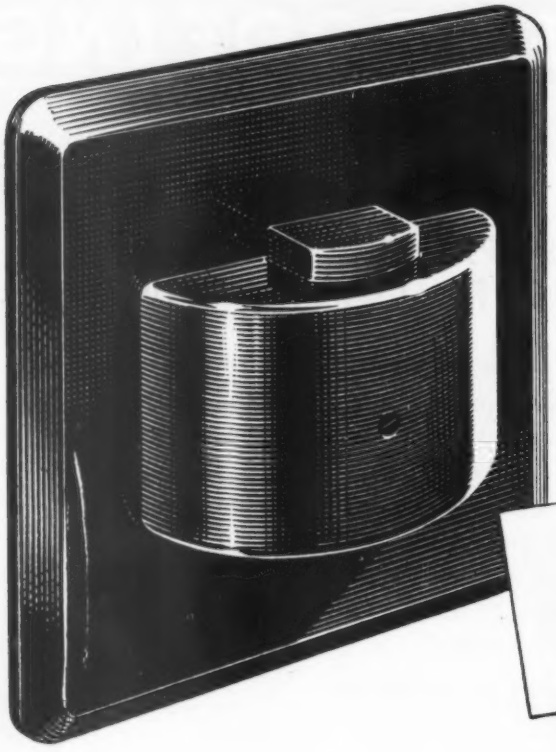
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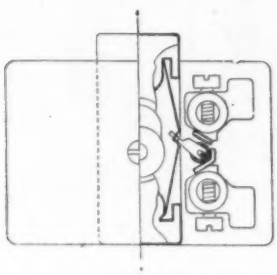


Specify

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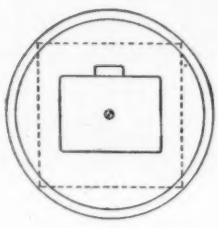
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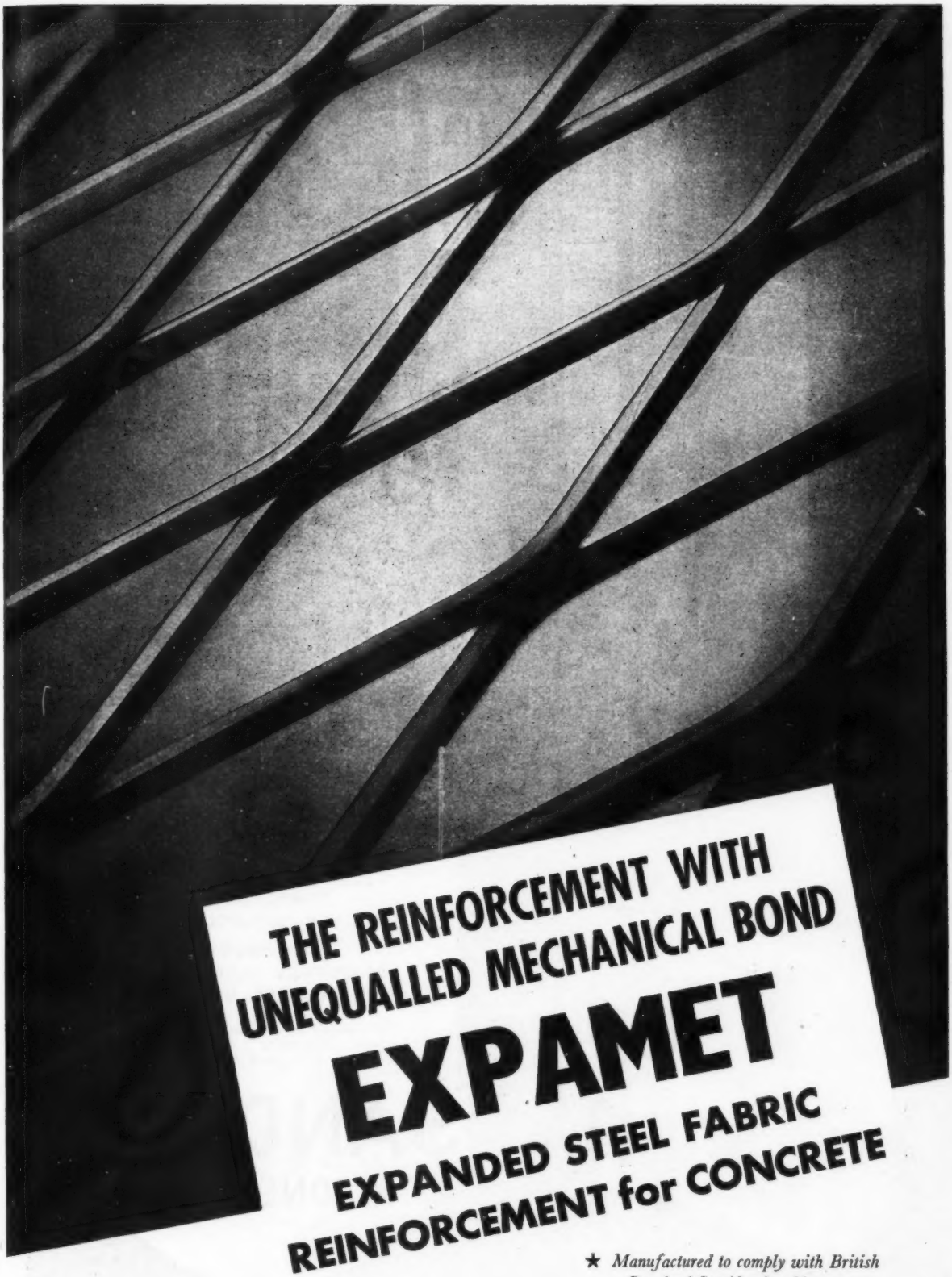
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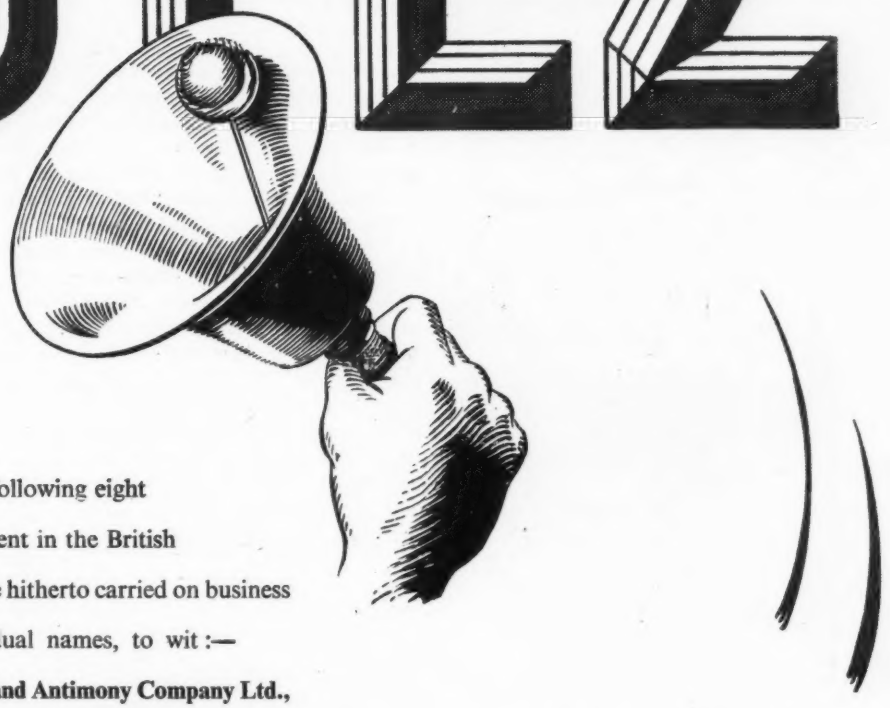


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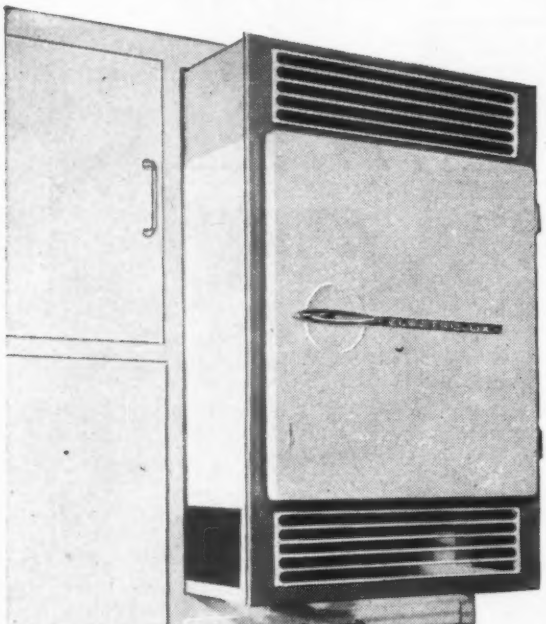
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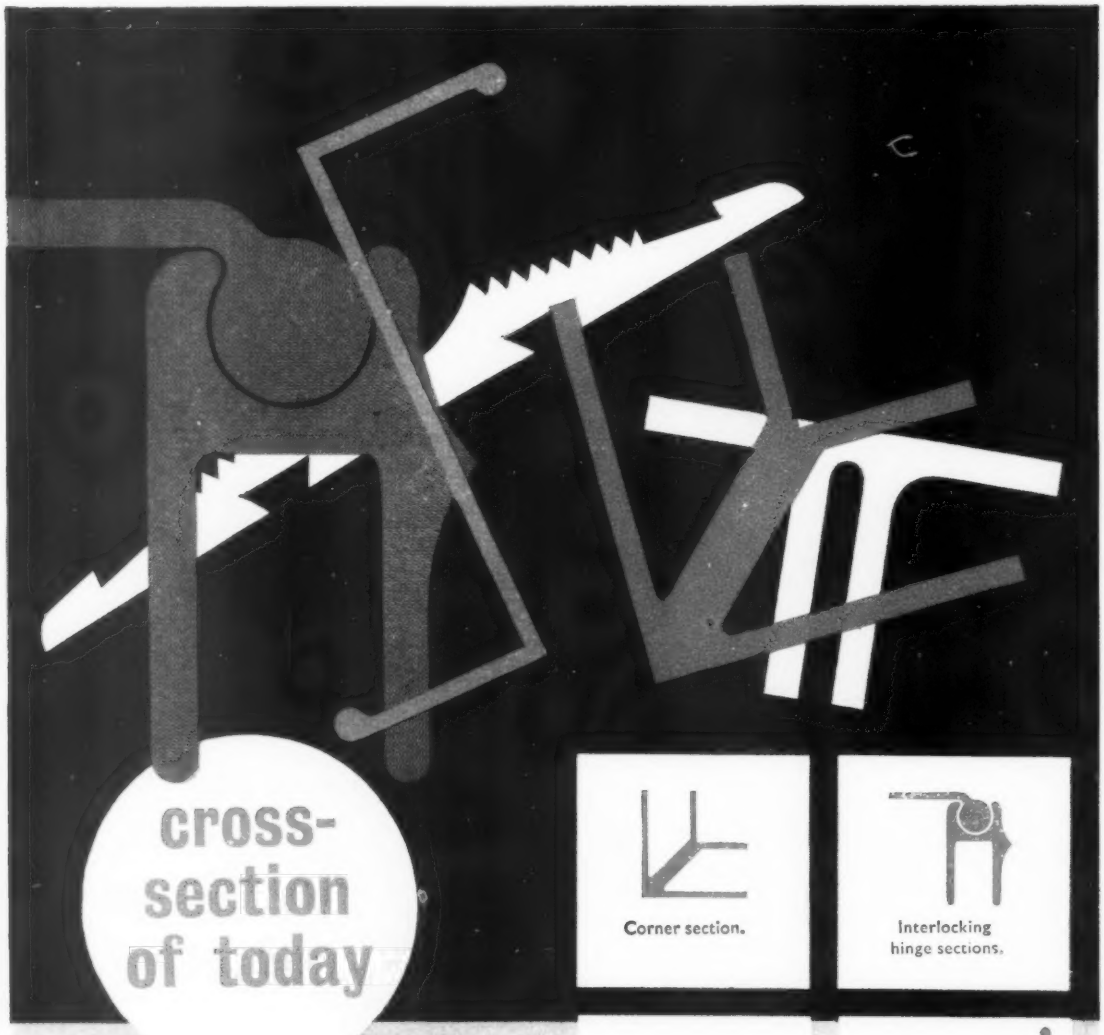


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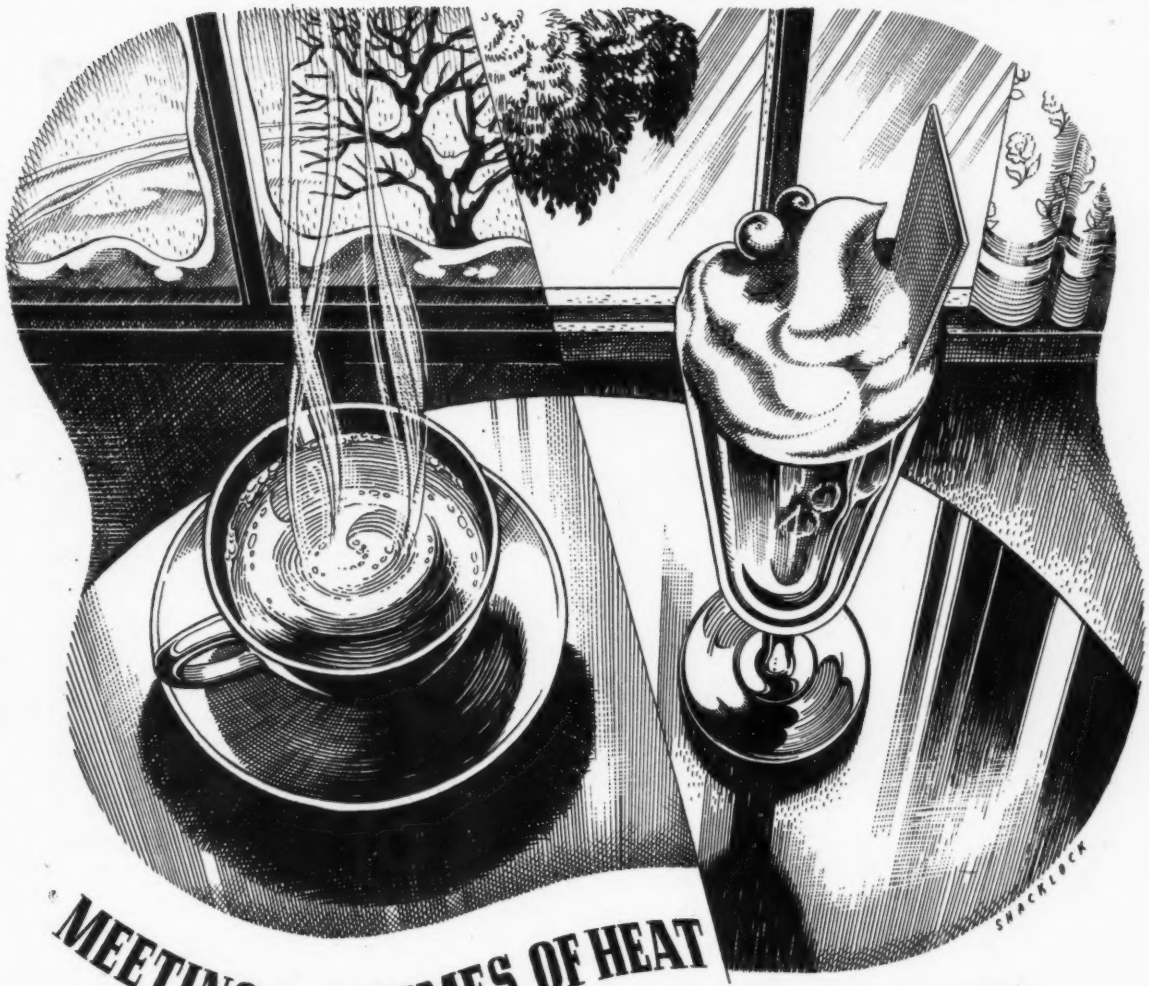
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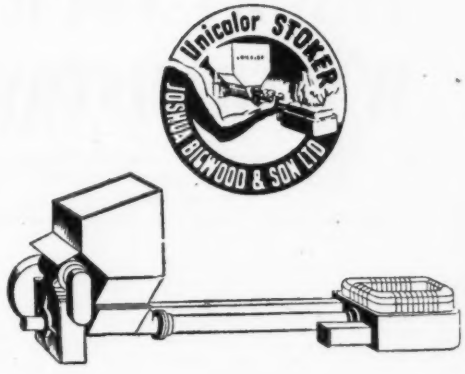




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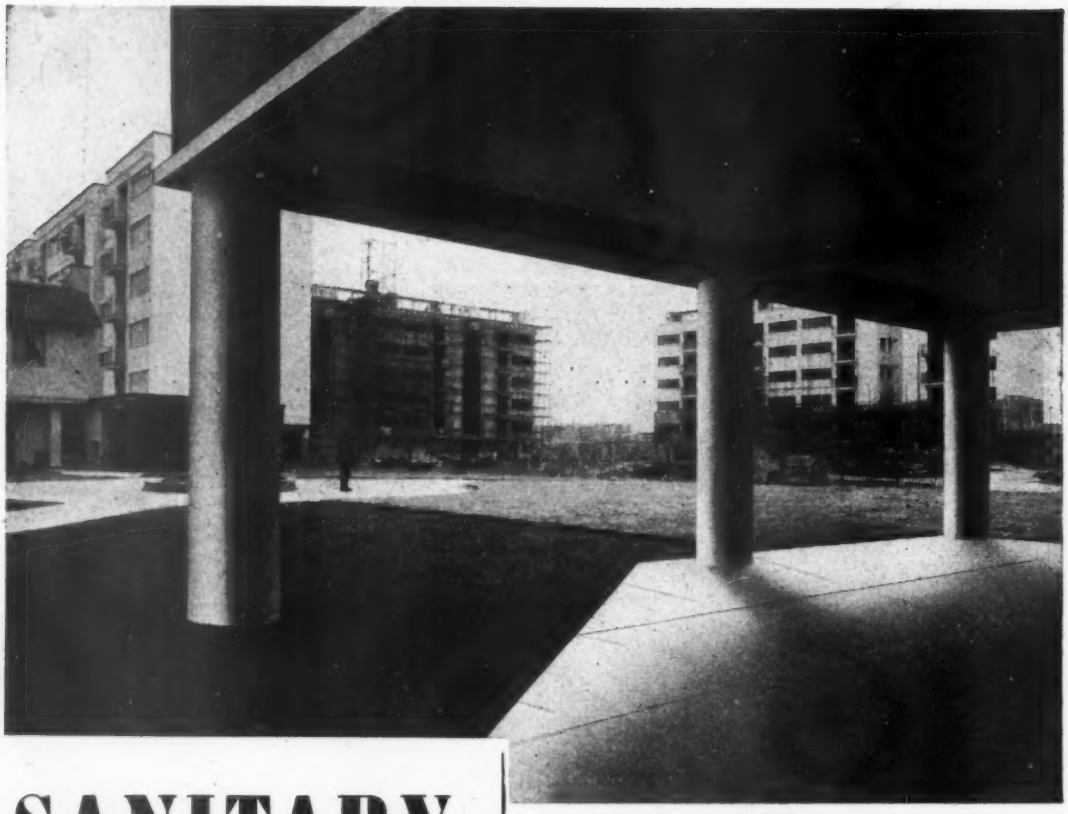
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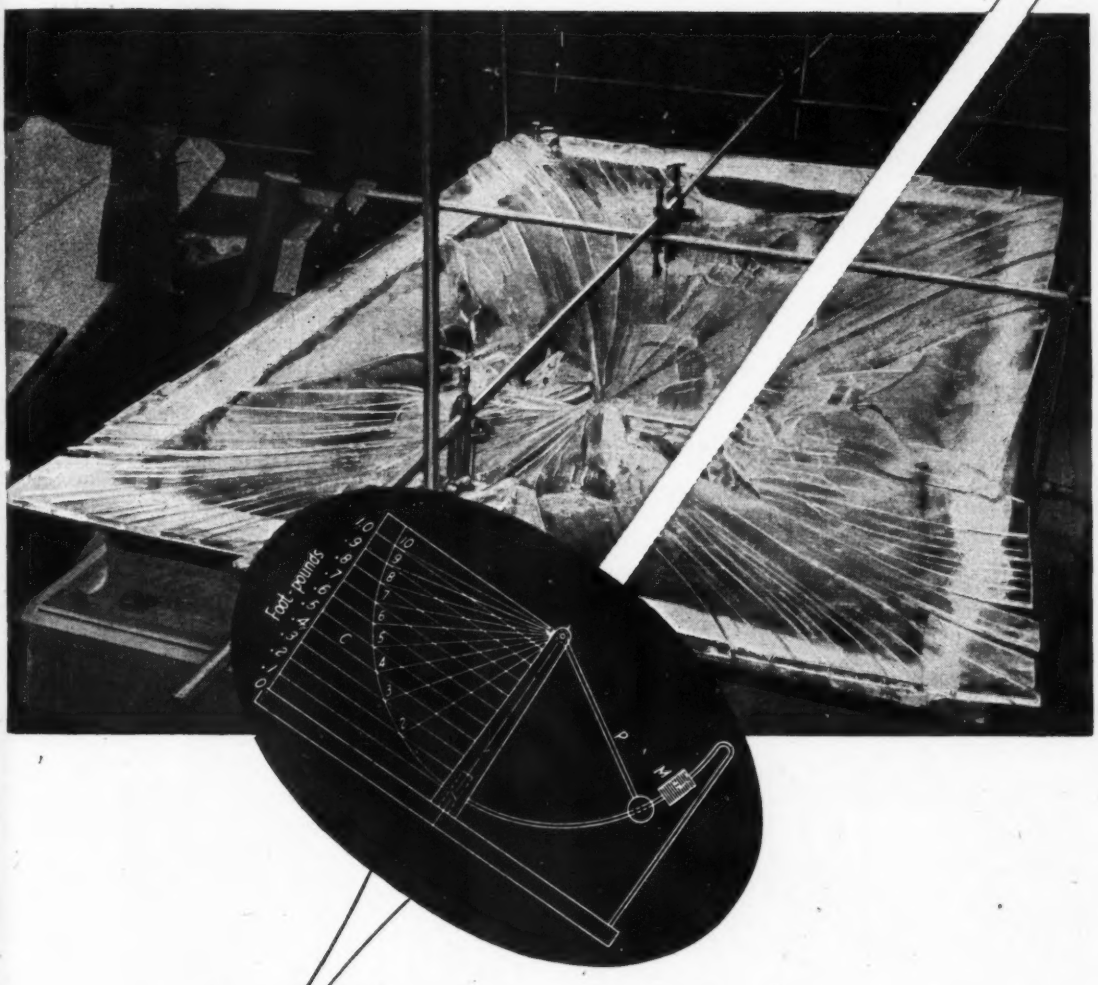
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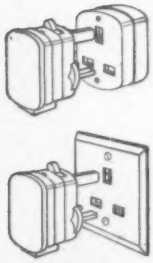
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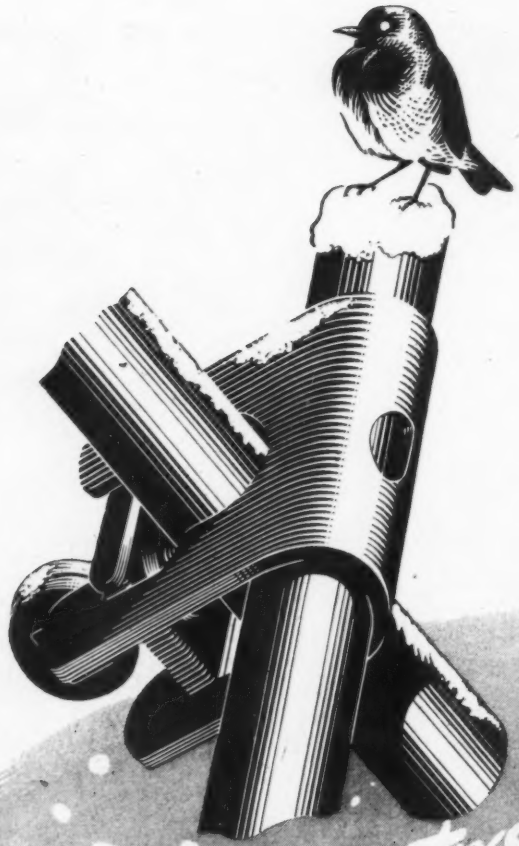
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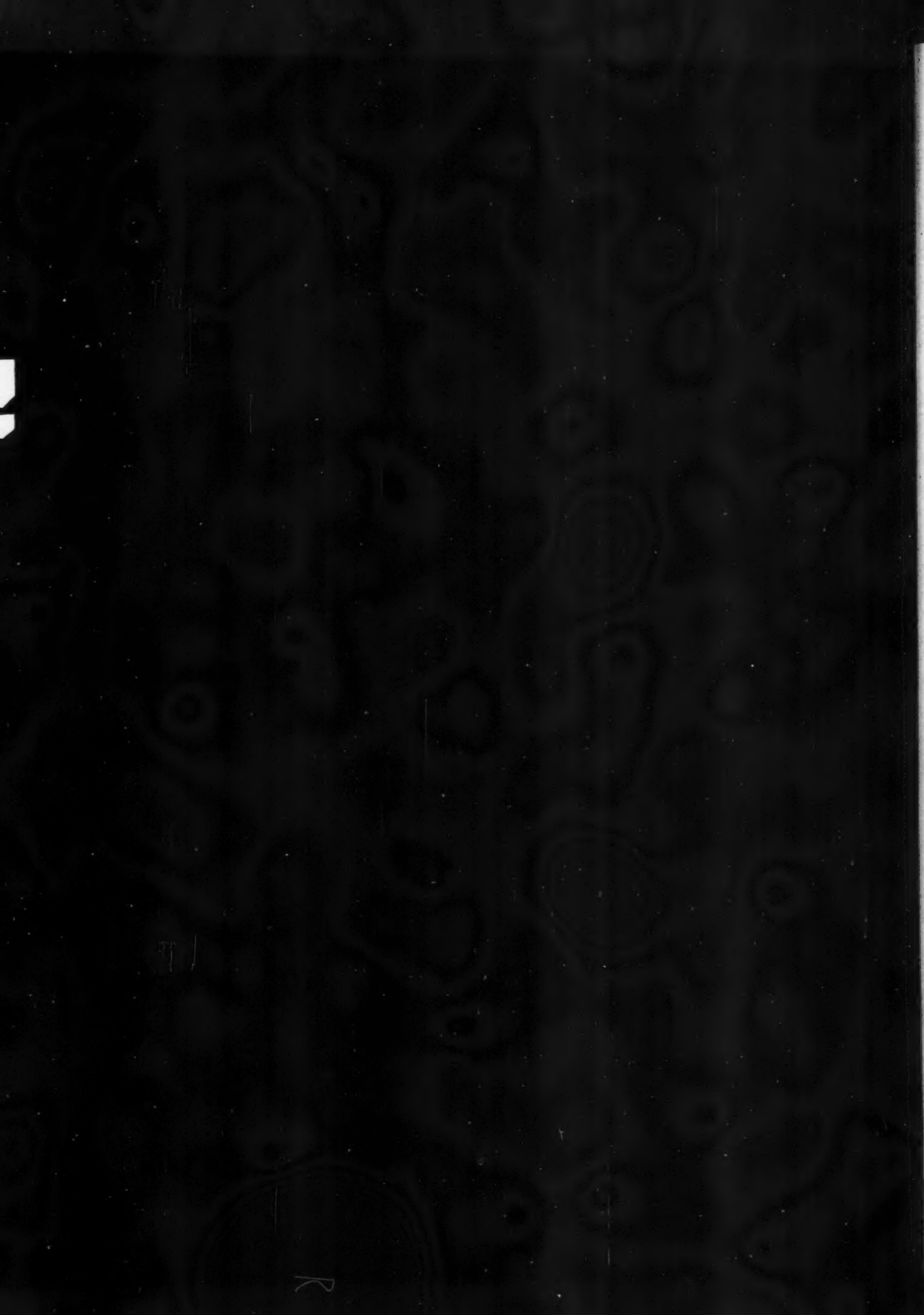


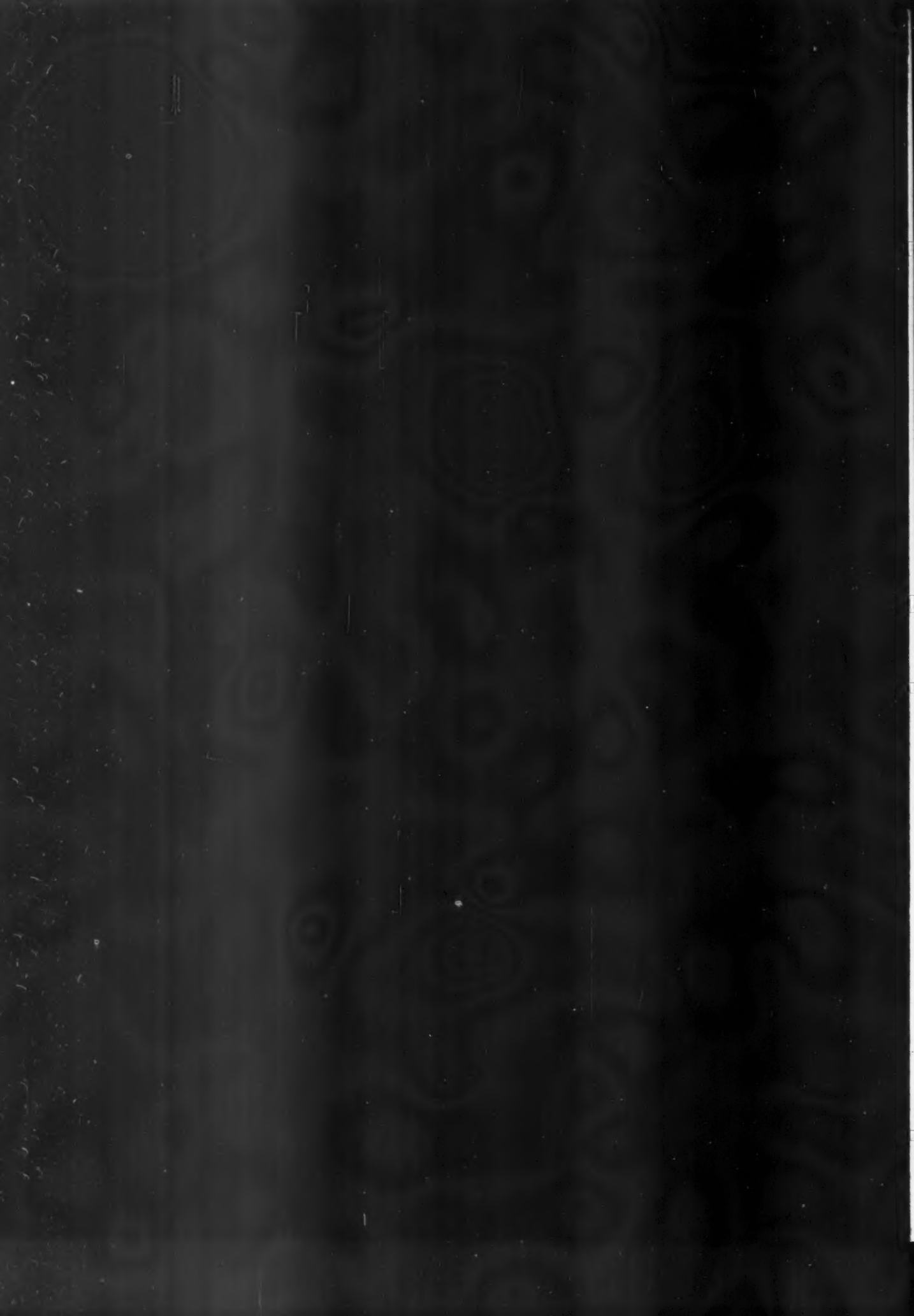
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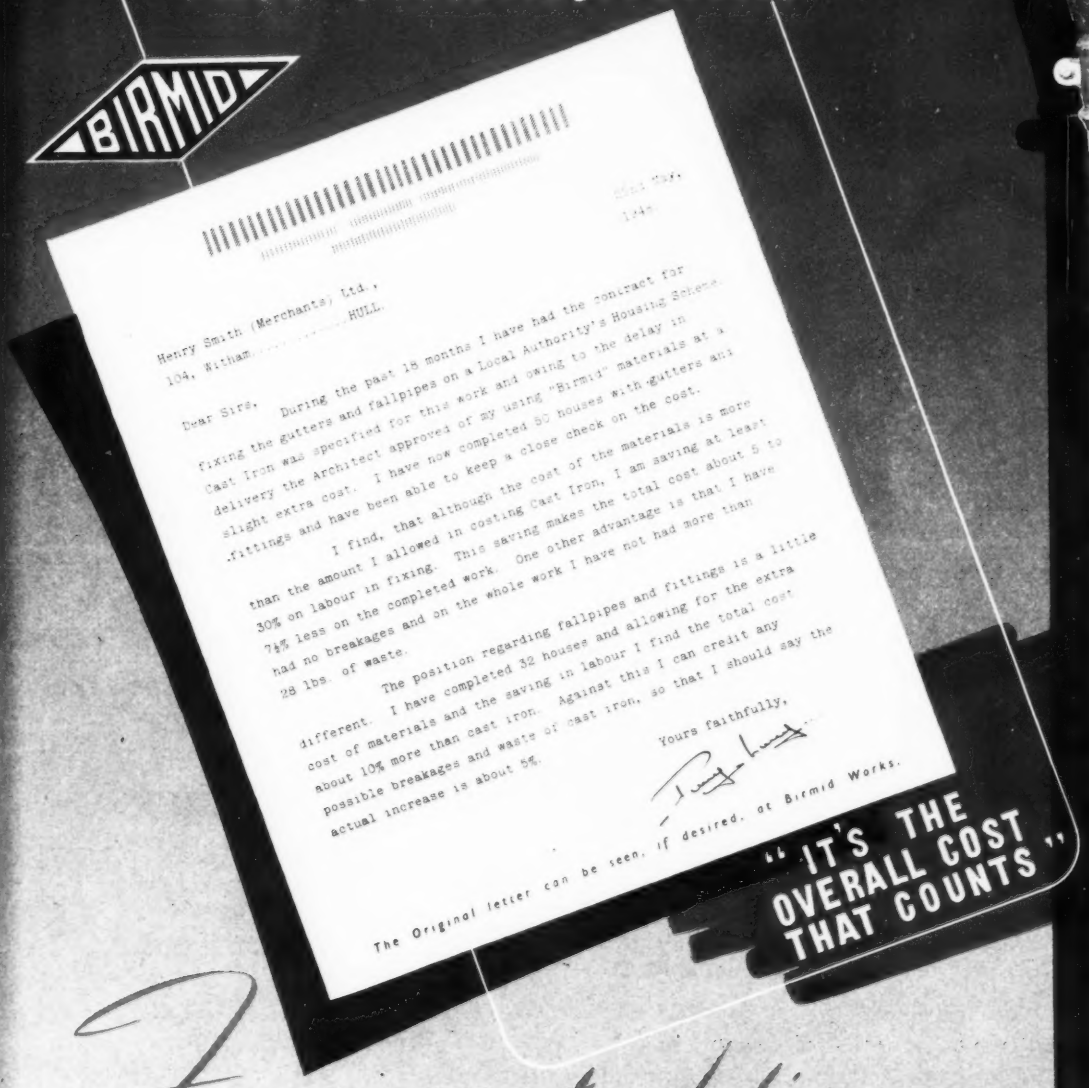




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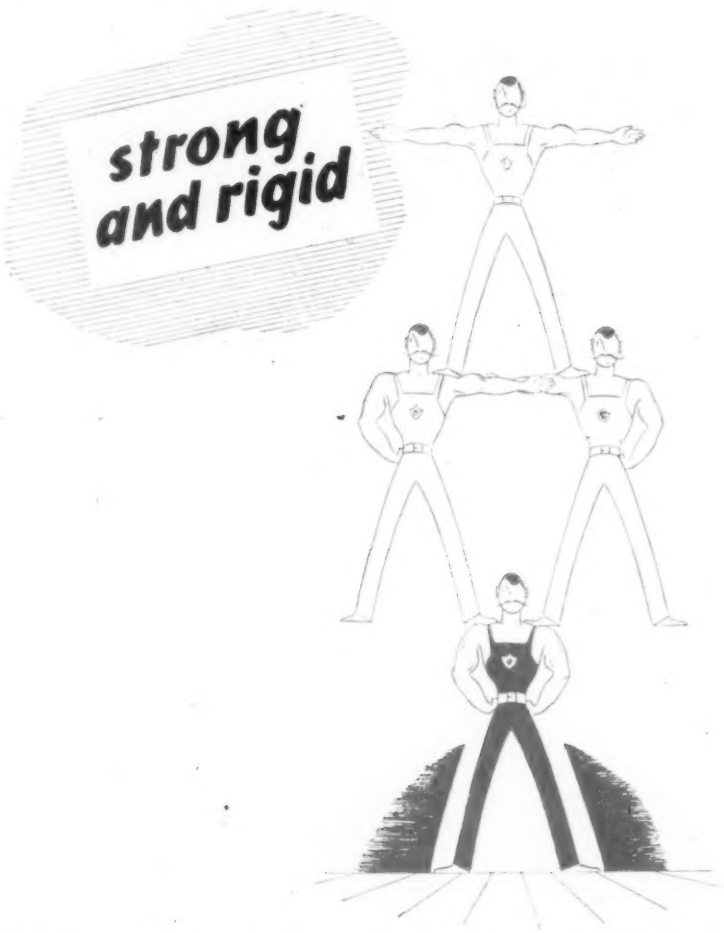
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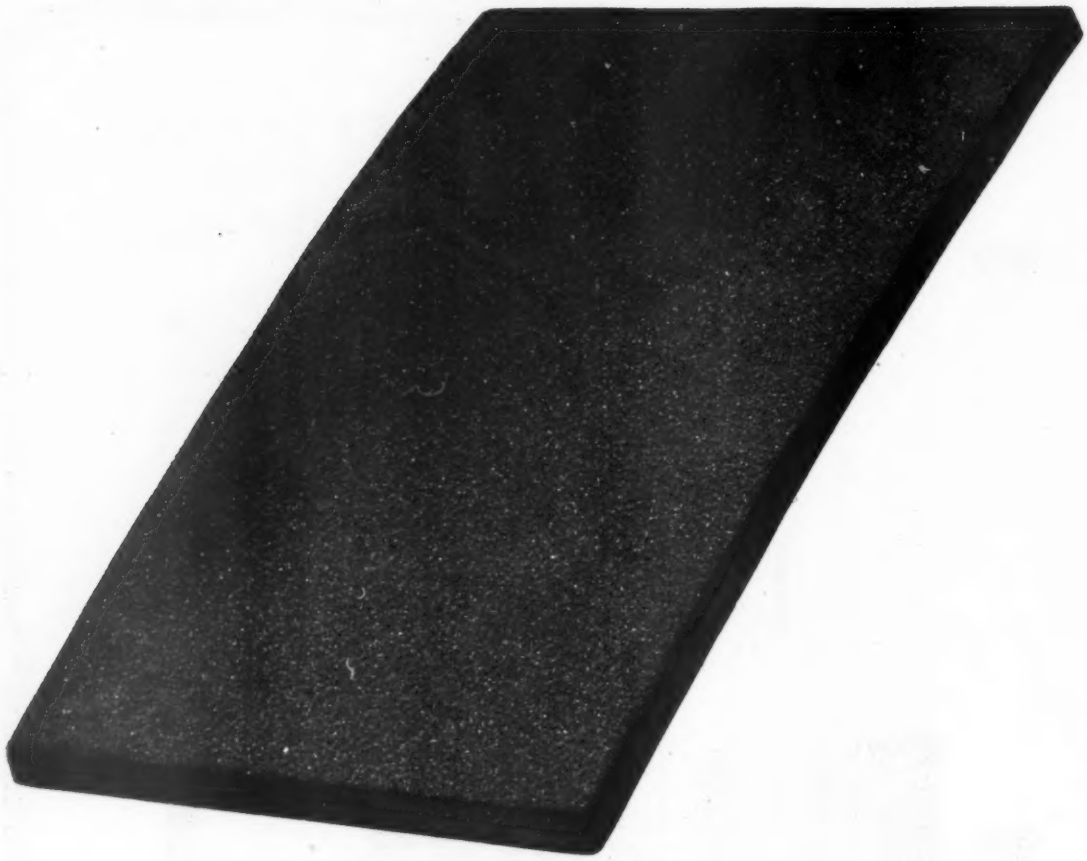
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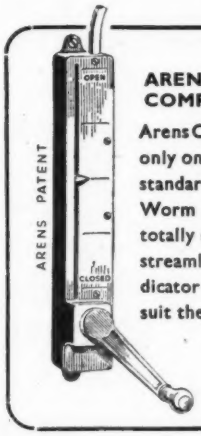
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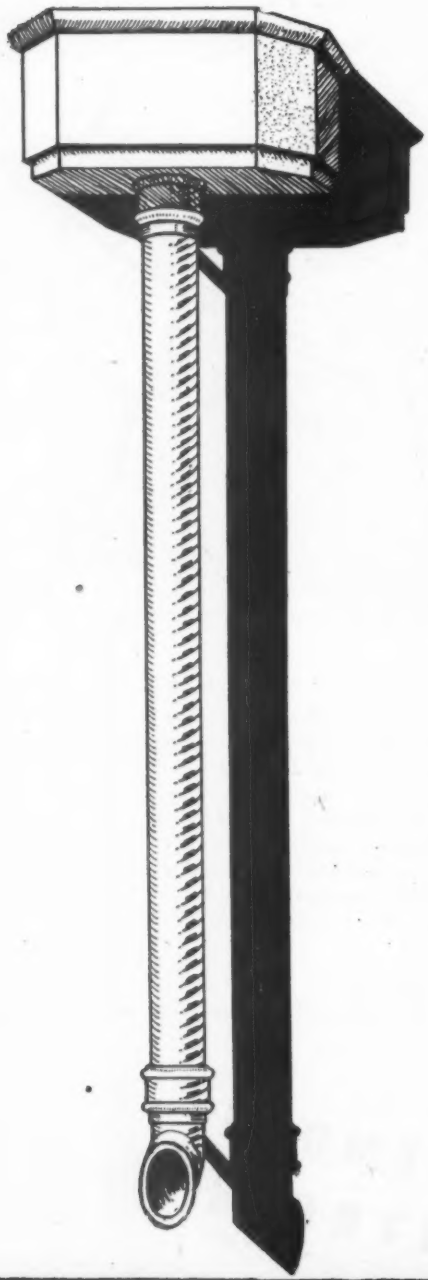
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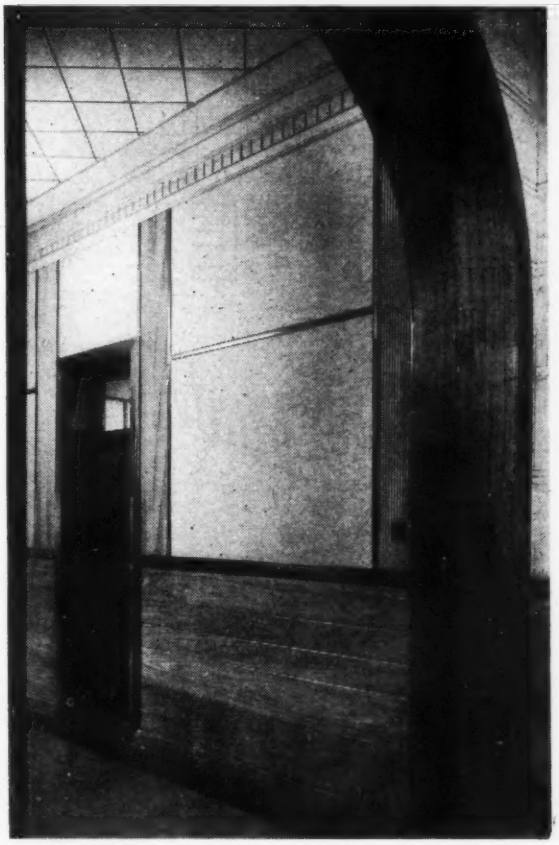
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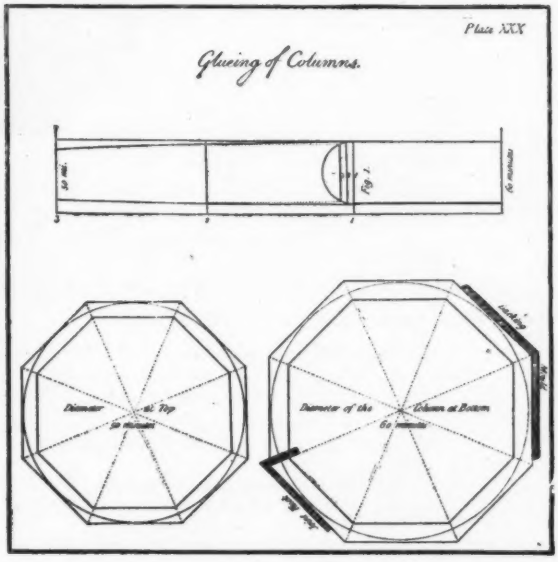
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TOP RIGHT. Wall panels of Celotex building board with Texboard dado on hardwood skirting. Ceiling of tileboard laid diagonally.

ABOVE. Georgian doorway in Great Ormond Street, London. The columns are built up on the principle shown in the diagram (right) from "*The Practical Builder or Workman's General Assistant*" by William Pain, Architect and Joiner, 1799.

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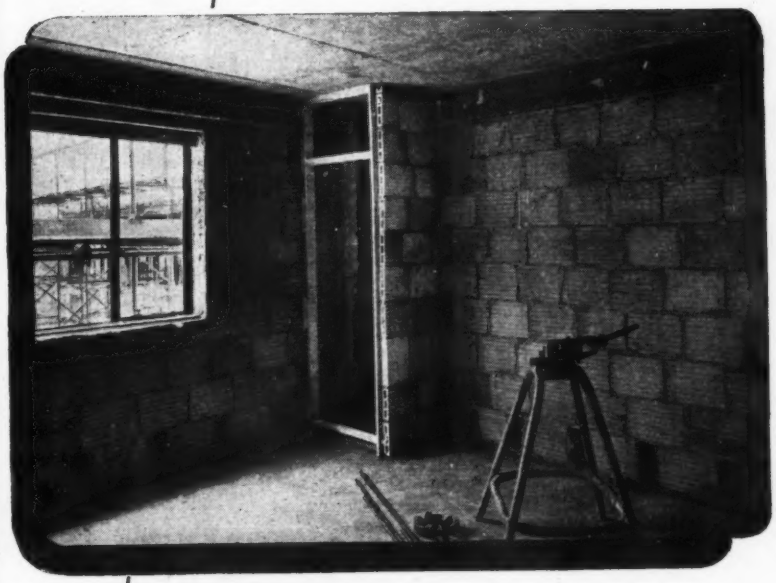
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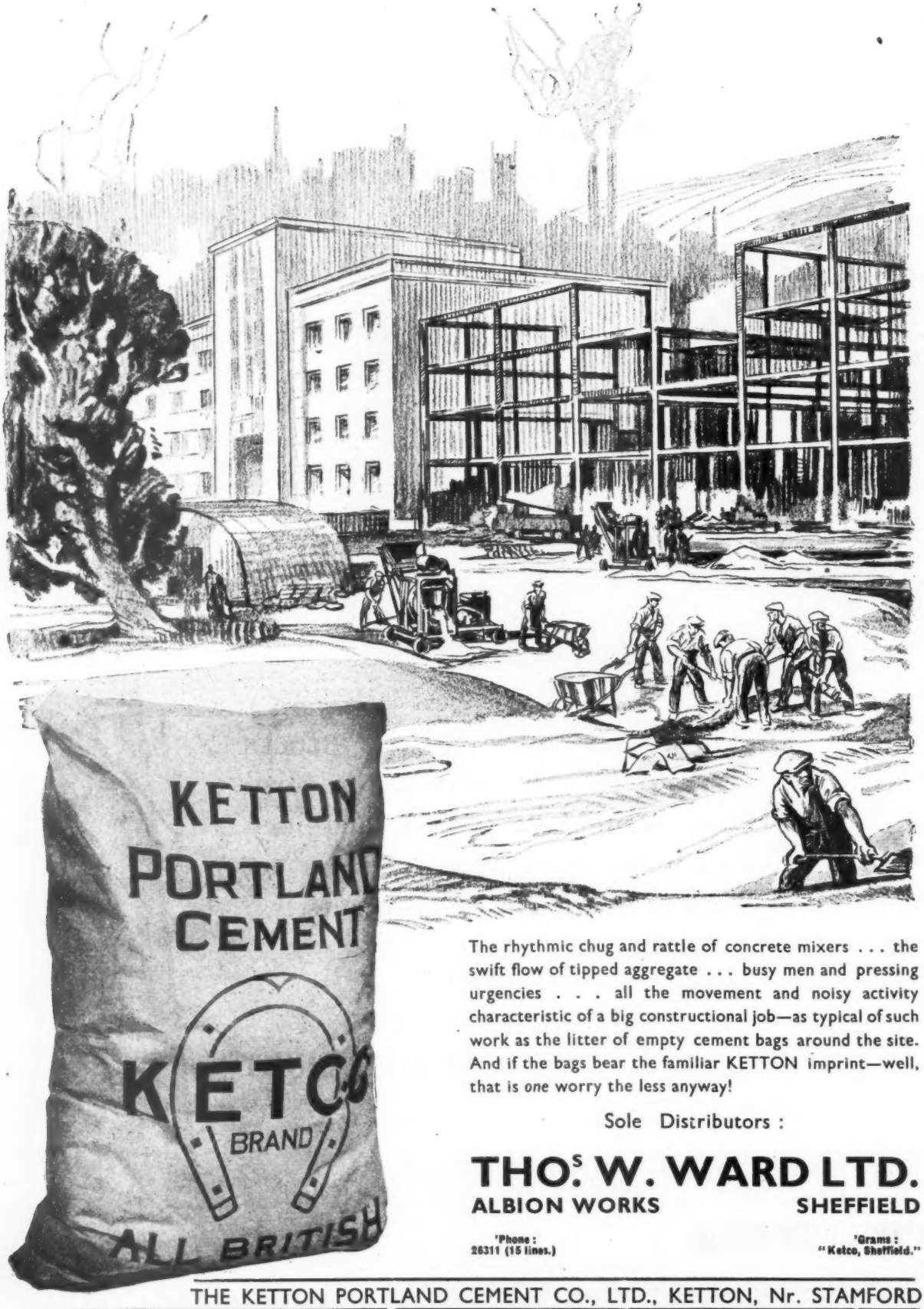
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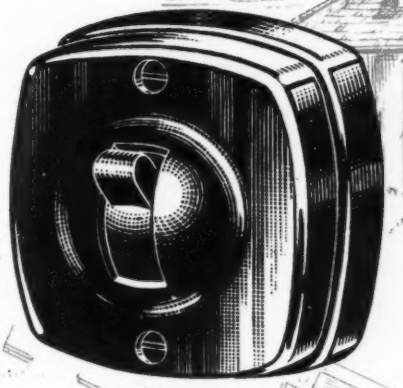
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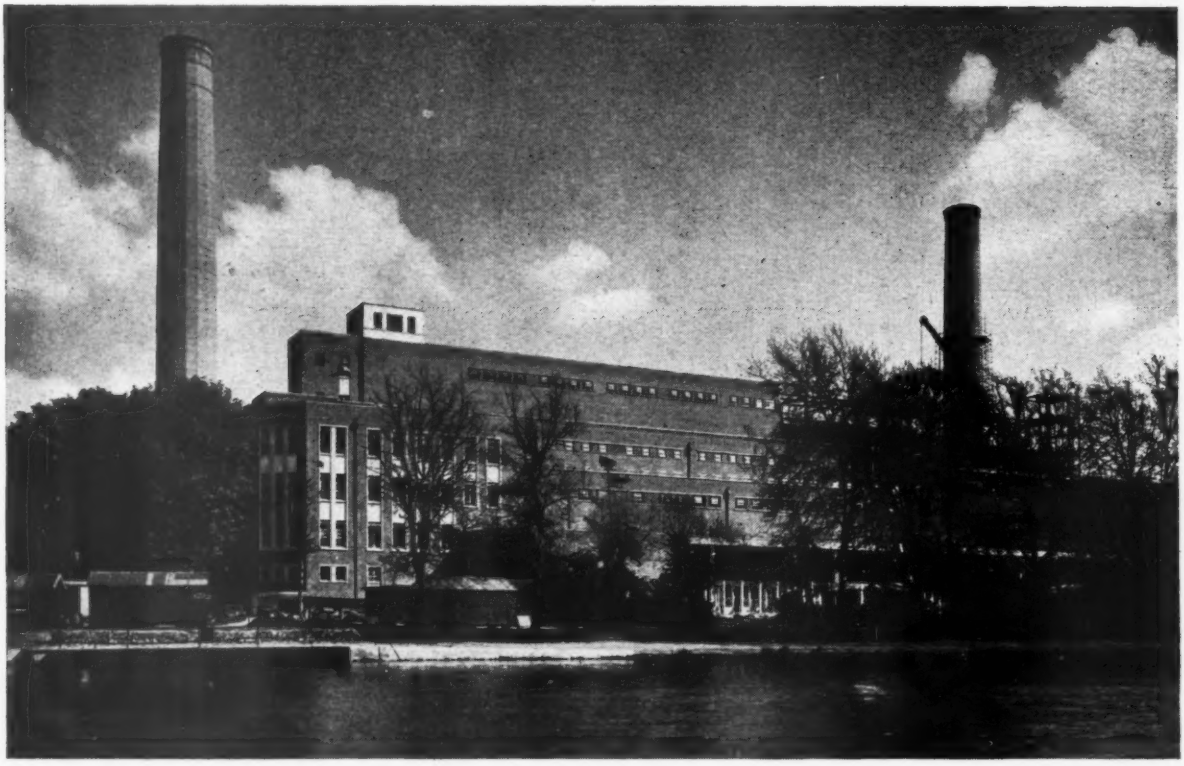
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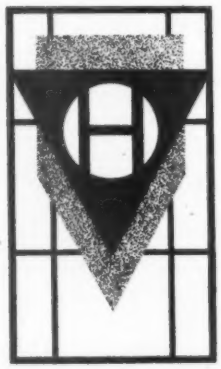


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DIARY FOR DECEMBER JANUARY AND FEBRUARY

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

GLASGOW. *Exhibition of Premiated Designs for TUC Memorial Building Competition.* At the Scottish Building Centre, 425/427, Sauchiehall Street, Glasgow, C.2. (Sponsor, TUC and SBC.) UNTIL DEC. 31

LONDON. *Danish Art Exhibition.* At the Victoria and Albert Museum, S.W.7. (Sponsor, Victoria and Albert Museum.) UNTIL JAN. 2

150 Years of Lithography Exhibition. At the Victoria and Albert Museum, South Kensington. UNTIL DEC. 31

Building Good Houses Exhibition. At the Science Museum, South Kensington. (Sponsor, BRS.) UNTIL DEC. 31

A Series of Papers on Industrial Design. Milner Gray. *The Industrial Designer and Consumer Goods.* Jan. 19. Gordon Russell. *The Industrial Designer's Responsibility.* Feb. 2. Robin Darwin. *The Training of the Industrial Designer.* Feb. 16. John Gloag. *British Industrial Design and World Markets.* March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.

International Architectural Student Congress. Postponed until April.

Design Fair. At the Whitechapel Art Gallery. (Sponsor, CID.) JAN. 3-29

Exhibition of Visual Aids. At the Murray House Exhibition Hall, Vandon Passage, Petty France, S.W.1. (Sponsor, CID.) JAN. 3-29

R. Gordon Brown. *Some Problems in Architectural Education.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. JAN. 11

A. F. B. Nall. *The Design and Selection of Sanitary Fittings.* At the RSI, 90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. JAN. 12

Exhibition and One-Day Conference on Housing in the Stone Districts. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) JAN. 17

The New Social Legislation and the Family. A Conference to be held at the Conway Hall, Red Lion Square, W.C.1. (Sponsors, TCPA and British Social Hygiene Council.) JAN. 20-21

Engineering Equipment and Materials Exhibition. At the Old Horticultural Hall, Vincent Square, S.W.1. (Sponsor, "Britain's Best" Exhibition.) JAN. 26 TO FEB. 9

NFBTE Annual Meeting. In the Liverpool Victoria Friendly Society Building, Southampton Row. JAN. 27

Professor W. G. Holford. *Design in City Centres.* At Caxton Hall, Westminster. (Sponsor, TPI.) 5.30 p.m. FEB. 3

LCC Housing Exhibition. At Charing Cross Underground Station. (Sponsor, LCC.) FEB. 7-28

RIBA Presidential Address to Students and Presentation of Prizes. Criticism of work submitted by Anthony Chitty. At the RIBA, 66, Portland Place, W.1. 6 p.m. FEB. 8

F. J. Samuely. *Force and Form: The Aesthetics of Stress Distribution.* At the RIBA, 66, Portland Place, W.1. (Sponsor, ASB.) 6 p.m. FEB. 15

Professor Anthony Blunt. *Mannerism in Architecture.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. FEB. 22

Ideal Home Exhibition. At Olympia. (Sponsor, *The Daily Mail.*) MAR. 1-26

The Architect's Place in our Education. At the AA, 34/6, Bedford Square, W.C.1. Joint members and students' evening. (Sponsor, AA.) 7.45 p.m. MAR. 2

E. Prentice Mawson. *Design of Parks and Public Gardens.* At Caxton Hall, Westminster. (Sponsor, TPI.) 5.30 p.m. MAR. 3

H. S. Goodhart-Rendel. *Rogue Architects of the Victorian Era.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. MAR. 8

T. P. Hoar. *The Protection of Metals against Corrosion.* At the RIBA, 66, Portland Place, W.1. (Sponsor, ASB.) 6 p.m. MAR. 22

S. Rowland Pierce. *The Architect and Planning.* At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m. MAR. 23

Professor Ian Bowen. *The Economics of Building Operations and the Architect.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. MAY 24

Edgar Kaufmann. *Museums and Industrial Design.* At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. MAR. 30

MANCHESTER. *Timber as an Engineering Material.* Post Advanced lectures in Building and Civil Engineering. P. O. Reece. *Loads, Designs and Stresses.* Jan. 12: R. T. Walters. *Structural Design.* Jan. 26: F. D. Silvester. *Connections.* Feb. 9: P. O. Reece. *Plywood.* Feb. 23: B. Alwyn Jay. *Posts and Preservation.* March 9: P. O. Reece. *Comparative Efficiency of Timber in Relation to Other Materials.* March 23. At the College of Technology, Manchester. (Sponsors, TDA in collaboration with the Regional Advisory Council for Technical Education.) UNTIL MAR., 1949

NEWS

THURSDAY, December 23, 1948
No. 2811 VOL. 108

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Though no feature in the JOURNAL *is without value for someone, there are often good reasons why certain news calls for special emphasis.*

★ *means spare a second for this, it will probably be worth it.*

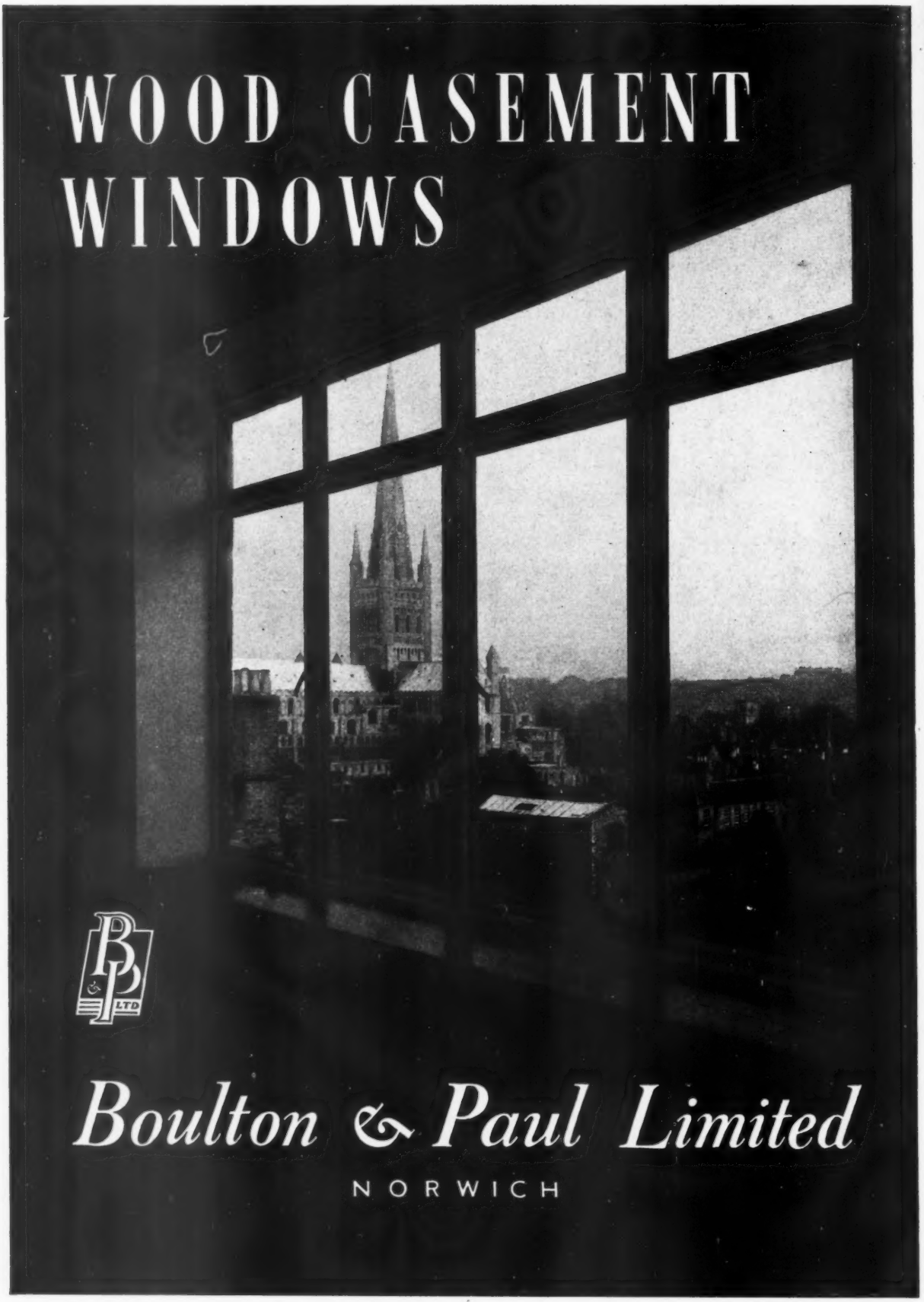
★★ *means important news, for reasons which may or may not be obvious.*

Any feature marked with more than two stars is very big building news indeed.

ARCUK are offering MAINTENANCE SCHOLARSHIPS IN ARCHITECTURE for award in June, 1949.

The Scholarships will consist of a grant for the payment of one-third of the School fees and, when necessary, a maintenance allowance. The Scholarships will be renewable from year to year until the student has finished his or her School training. They will be available for Students of British nationality who could not otherwise afford such training to enable them to attend Architectural Schools approved by the Council. The Scholarships will be available both for students who have already begun their training and for students wishing to begin their training. Scholarships will not be granted to Students who will be less than 17 years of age on October 1 of the year in which the examination is taken. Particulars and forms of application may be obtained from: The Secretary to the Board of Architectural Education, Architects' Registration Council of the United Kingdom, 68, Portland Place, London, W.1. Copies of previous years' examination papers may be obtained on payment of 6d. The closing date for the receipt of applications, duly completed, is January 31, 1949.

WOOD CASEMENT WINDOWS



Boulton & Paul Limited

NORWICH

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From AN ARCHITECT'S *Commonplace Book*

VICTORIAN ARCHITECTURE. [*From* An Introduction to Victorian Architecture, *by Hugh Casson* (*Art and Technics*).] The Victorians expected every building, like every painting, to tell a story, and preferably to point a moral as well. The Victorian architect was a man of his own period, and responded to this demand with a will, borrowing motifs from every country and period at his command. Flemish and Hindoo, Moorish and Venetian, Spanish, Gothic and Greek, the styles of East and West, new and old, are paraded by in all their panoply of texture and colour, marching and countermarching into a kaleidoscope of patterns, like gaily caparisoned troops in some monster tattoo. But for all their changing complexity, the patterns are disciplined and firmly shaped. The men in command of these wheeling armies knew what they wanted, and manœuvred their units with self-confidence. Only occasionally a Philip Webb, a John Emmett, or a Thomas Harris would fall out of step and wander off, deaf to the rhythm of the herd. To-day we may laugh at the well-meant and self-assured play-acting of the Victorian architect, just as we may regret that during the nineteenth century the history of architecture is little more than the assembled biographies of nineteenth-century architects. But before we dismiss that architecture as just a pageantry of over-durable problem pictures " as unpleasant, snobbish and well intended as grocer's port," let us not forget in comparison the uncertain and trivial architecture of our own time.

***CONDITIONS OF EMPLOYMENT** of building and civil engineering workers in the electricity supply industry will, in future, be settled by a National Joint Committee.* An Agreement to this effect has been signed by the British Electricity Authority and the National Federation of Building Trades Operatives. The Agreement establishes for the first time a National Joint (Building and Engineering) Committee on which will sit representatives of the Authority, the Electricity Boards and the North of Scotland Hydro-Electric Board, together with representatives of the National Federation. The Committee will settle by negotiation the terms and conditions of employment throughout the country, and provision is made for arbitration in the event of failure to reach a settlement on any matter within the scope of the Committee. Arrangements will be made for consultation at district level between representatives of the National Federation and representatives of the Authority or Boards, on matters arising from the local application of the negotiated conditions.

★

The first house of the LCC's HAROLD HILL HOUSING ESTATE, Essex, was opened recently. The ceremony was performed by the Chairman of the Council, Mr. Walter R. Owen, J.P. The estate is the largest post-war housing estate in the London area. 7,600 dwellings will be erected on some 630 acres. With land for schools, community and health centres, shops cinemas, churches, parks and open spaces, and industry, the layout covers some 1,460 acres.

The house opened recently is semi-detached, with a total superficial area of 1,128 sq. ft. It has five rooms—living room (170 sq. ft.), sitting-room (124 sq. ft.), and three bedrooms (165, 124 and 114 sq. ft.). An additional WC is provided on the ground floor. Heating in the living room is by means of an open fire fitted with a back boiler to provide hot water and with convector flues to warm a number of other rooms. Other amenities include linen cupboards, ample bedroom cupboard accommodation, space for perambulator and fuel and tool stores. Work began on the roads and sewers in August, 1947, and on the erection of houses in April, 1948.

The site of the estate was part of the old liberty of Havering, which was owned by King Harold in 1066. One of the manors of the liberty was that of Dagnam, which forms part of the site. It was decided by the Council in 1945 to acquire part of the land for temporary housing and the remainder by compulsory purchase for permanent development. The Minister of Health confirmed the compulsory purchase order in June, 1947.

The layout covers 1,460 acres and has been designed to provide for a fully balanced and complete community. 7,600 dwellings are to be erected—the majority being two-storey houses. Land is allocated as follows:—

Permanent housing, 553.4 acres; temporary housing, 76.0 acres; schools (11), 121.6 acres; community centre, 20.8 acres; health centre and clinics, 4.6 acres; shops, 13.6 acres; refreshment houses, 8.4 acres; cinema and car park, 3.2 acres; churches, 9.6 acres; libraries, 2.3 acres; green belt, woodlands, etc., 455.9 acres; park and recreation ground, 67.9 acres; allotments, 14.1 acres; industry, 81.4 acres; road widening, 10.6 acres.

The planning of the estate will retain existing features so far as is possible. A large number of fine trees and coppices are being preserved, and the open space to be provided will form a parkway through the estate. A small number of three-storey flats will be built on the higher land to provide an interesting skyline. Industrial land has been selected and roads planned so as to exclude all industrial traffic from the estate itself. Drainage problems will be dealt with by the erection of a special pumping station to be equipped with three automatically operated electrically driven pumps, each capable of discharging 48,000 gallons an hour. Most of the 7,600 houses to be erected will be of a dozen different types built mainly in brick and of "No-fines" concrete. Permanent prefabricated types will also be erected (98 Watson houses and 200 Orlit). A small number of " middle-class " houses will also be built. The work of planning and constructing the estate is under the direction of the Council's Director of Housing and Valuer. The contractors are W. and C. French, Ltd.

Berkshire farmers are opposing THE NEW SATELLITE TOWN AT BRACKNELL, near Reading. The Berkshire branch of the National Farmers' Union, representing 2,000 farmers, has resolved to make " the strongest possible representations " to the Minister of Town and Country Planning and the Minister of Agriculture against the proposals. At a meeting of the executive committee of the Berkshire NFU, Mr. A. J. Bucknall said the planners had deliberately chosen the best food-growing land to build on.



Last week Astragal commented on Brian O'Rorke's interior designs for the Orient Line's R.M.S. "Orcades" which has just sailed on her maiden voyage. A full description of the ship will soon be given in the JOURNAL. *The photograph above shows the first class café lounge.*



A Royal Tree in St. Paul's

This week's frontispiece shows one of the two Christmas trees in St. Paul's Cathedral that have been presented by the King every year since 1935. This one stands just inside the atrium at the west end and is splendidly framed by Wren's baroque pilasters. In reproducing it the JOURNAL wishes all its readers a very happy Christmas.

An AUSTRIAN TIMBER HOUSE was inspected at Banstead, Surrey, recently by Mr. A. G. Bottomley, Secretary for Overseas Trade.

The house is the design of an Austrian architect, Mr. Walter Koenig, and is partially prefabricated. The floor area is 1,300 sq. ft. and accommodation consists of a living-room, study and kitchen on the ground floor and three bedrooms and a bathroom in the roof space, which is tiled and steeply pitched. Particular attention has been paid to heat insulation. The 4 ft. × 8 ft. wall panels consist of vertical tongued and grooved boarding on a bituminous damp course, backed by an air space, ½ in. fibre-board, a second cavity in which is hung aluminium foil, and finally one inch of wood wool cement boards, finished with plaster on the inner face. Windows are double glazed. The house will be sold for about £2,200, but the actual cost of the carcase and fittings, stated Mr. Koenig, without the cost of land, transport and import duty, is in the region of £1,200. This prototype house took English workmen six weeks to erect, but with training this time could be greatly reduced.

The ABT has announced its intention to award a DIPLOMA TO CLERKS OF WORKS who qualify to receive it.

The object is to establish a status for Clerks of Works and to encourage them to improve their general theoretical knowledge by professional qualifications. The holding of the Diploma will signify the attainment of recognized standards and will help to ensure that only competent Clerks of Works will be employed in positions of trust. Those who wish to obtain the diploma will be required to comply with the following conditions:—1. To have been for at least 10 years a skilled building operative, or to have had 10 years' experience as a supervisory technician. In either case 5 years must have been spent on the site; and 2. As a temporary concession applicants who have held the office of Clerk of Works or General Foreman for at least 10 years, will be exempt from all but the Oral Examination given by the Association of Building Technicians.

The first examination will be held in early May of next year.

NEWS IN BRIEF

The International Architectural Students Congress has once again been postponed. The new date for the congress has now been fixed for the middle of April.

The LCC Education Committee has approved a plan for the building of 34 new county colleges "to bridge the gap between full-time schooling and full-time employment." The total cost of the scheme is estimated at £14 millions with maintenance costs of £1,950,000 a year.

The Pilgrim Trust has made a grant of £5,000 to the Dean and Chapter of Chester Cathedral to meet the cost of repairs to the cathedral fabric. Repairs to the roof have already cost £5,300, and the Dean has stated that much remains to be done and that a substantial sum of money will be needed.

NEW METHODS OF HOUSE CONSTRUCTION

DURING the last few years there has been much controversy about the merits or disadvantages of unorthodox methods of house construction as compared with the traditional brick house. It is generally agreed that the production of temporary houses was only an emergency measure, but the question is by no means settled as far as permanent houses are concerned. In the last years of the war and after, the technical press was flooded with reports on proposed new types of house construction and on "experimental" houses. Individual experimental houses may supply valuable information regarding the technical performance of a system, but can never be conclusive in relation to cost and labour. The main object underlying the development of new types of building construction for houses has been to economise in man-power—to produce more houses with a given force of labour. It is obvious that this aim cannot be realized on single prototypes; only a large-scale experiment can give an indication of the possible advantages of a new system.

It was therefore a wise decision on the part of MOW to select a number of types and subject them to such experiments. Groups of houses, not less than 50 in number, and mostly in semi-detached pairs, have been built by new methods of construction and have been under constant observation by officers of the Ministry who have recorded the actual expenditure in man-hours and costs on all site operations. The Report on these observations* is most interesting.

For the purpose of comparing entirely different types of construction it was necessary to develop a new technique of observation. The results are encouraging and show that, in spite of the great variations between different sites, it was possible to arrive at definite conclusions. "The better of the non-traditional houses should ultimately require less labour in the factory than is required to make bricks and cement in the traditional house. Even allowing for the crudities of early efforts in production, there are two systems which, at present time, require no more labour in the factory than is required for the materials in the traditional house, and two others which require substantially less." The Report proves convincingly that to achieve useful results with new methods of construction it is necessary to have the appropriate organization for the design of the house, or the production of the components, and for erection on the site. Only by complete co-ordination of these three phases can success be achieved, and the best design is doomed to failure if either the production or the erection is not well controlled and organized. "With each new type of construction the appropriate organization has to be evolved and this is just as important as the evolution of the design or working details. The traditional type of organization is

*New Methods of House Construction. National Building Studies. Special Report No. 4 (HMSO, 1948, 1s.).

perhaps the least flexible and the least likely to yield a satisfactory result with a new type of construction." "Successful results depend on the leadership, formal or self-assumed, of practical constructors, backed up by modern methods of costing and method study."

The experiments were confined to the external walls, party walls and partitions, which only account for about 30-40 per cent. of the total site labour. The best of the new methods of construction save up to 40 per cent. in man-power for the part of the house to which they have been applied. The saving in terms of the whole house is, therefore, less than 20 per cent. Even so, the advantage is considerable.

The verdict of the Report can therefore be summed up as being in favour of the non-traditional house provided it is not forgotten that site organization plays as big a part as the initial design of the constructional method used.



The Architects' Journal
9, 11 and 13, Queen Anne's Gate, Westminster S.W.1
Phone: Whitehall 0611

NOTES & TOPICS

THREE MONTHS LEFT

Landowners have now about three months left in which to send in a claim to the Central Land Board for loss of development value. The deadline is March 31, 1949. The Board may extend the period for claims by three months or so, but are not likely to extend it further. The prudent landowner or leaseholder will have his claim in by the end of March.

*

One hopes the Board will announce from time to time, as zero hour comes nearer, how many claims have been made. Up to mid-November—the half-way point—only 12,000 claims had been received. No one has the least idea how many reasonable claims could be made; it cannot well be less than 250,000, and might easily be several times as many. How many claims will in fact be made is also anyone's guess. One can only say that so far there is a good chance that it will be surprisingly small.

*

Most people can usually be relied on to claim money to which they are or may be entitled, and a good deal of thought is likely to have been given to the small number of claims received by the Board up to half-time. Possibly most of the claimants are simply postponing form-filling till the last moment. Possibly some otherwise worthy citizens have allowed themselves to become bemused or fed-up with the several revolutionary Acts of the last few years and have decided to pay no attention to them. A more fundamental and, in my view, more probable reason is that the change in land ownership brought about by the Act is so big that many people either do not comprehend it or do not accept it, or both.

*

In his address last month to the Town and Country Planning Association, Sir Malcolm Eve rather pooh-poohed this side of the problem, but his address, on rereading, has a breeziness that seems perhaps a little uneasy. To take only one very practical point: several million people are not yet paying their National Insurance subscriptions, and the Government has decided to round them up gently and over an unspecified period. But no similar coaxing is allowed for Development Value claims. If only a fifth of the proper number are in by July 1 next year, nothing can be done for those who should have sent in the others. One cannot help wondering whether, under such conditions, the Act would be workable.

PRE-HISTORY IN OXFORD STREET

London will long remember the Institute of Contemporary Arts exhibition, "40 Years of Modern Art," which last winter brought modern painting and sculpture to the Oxford Street public with remarkable success. That had a modest title, as befitted so young an enterprise. The Institute's new exhibition, which opened this week, is more ambitious. It is called "40,000 Years of Modern Art," and is a comparison of primitive and contemporary art of an extraordinarily revealing kind.

*

The primitive exhibits include prehistoric cave-paintings, a Melanesian magic flying fish and a twelve-foot totem pole. The modern exhibits include the most celebrated of all Picasso's paintings, "Les Demoiselles d'Avignon," which belongs to the Museum of Modern Art in New York and has been specially shipped across the Atlantic for the occasion. It has never been shown in England before. Its loan should be a great encouragement to the Institute in its endeavour to set about doing for London what the Museum has done for New York so long and so effectively.

INFORMATION SHEET REPRINTS

I recently passed on the news that the AJ Information Sheets were to be reprinted. I am now told that reprinting has already started, although copies for readers will not be ready until the beginning of February. Supplies are not inexhaustible, and collectors would be wise to apply without delay, as there has always been a heavy demand for spare sheets.*

RECORDING RESEARCH

The interesting paper read by Richard Eve at the RIBA recently on the house heating trials of BRS was preceded by an excellent little film. Excellent is perhaps a rather flattering term for what was in parts rather in-

* An application form appears on p. 588 of this issue.





Two statues from the exhibition "40,000 years of Modern Art" which opened on December 21 at the Academy Hall, Oxford Street. Left, The Imp by Caudier-Brzeska. Right, a primitive figure from Sierra Leone. See Astragal's comment on facing page.

distinct and scratchy, but the attempt to record these unique tests and provide a source of visual education in these matters deserves the highest praise. The value of the cinema screen for impressing the memory by sight as well as sound is professed to be well understood by all official bodies concerned with the spreading of knowledge.

*

Nevertheless there are lamentably few films which cater for the architect and the builder. With Lana Turner in Hollywood's latest slick production at the local Odeon setting a standard, an educational film must be at least technically perfect if the architects are to be held spellbound in their seats. And if the subject-matter is as interesting and important as this first attempt by BRS, so much the better. Let's hope that many longer and better films will soon come from the same source. In the meantime, societies and schools might well overhaul their rusting film projectors.

CHRISTMAS GIFTS

Here are a few words of comfort for those of you who are still wandering in angry desperation through the Gift Departments of our department stores (bath salts, table mats, lemonade sets, embroidered work-bags, plastic "Scotties" and Beautiful Britain Calendars with that John o' Gaunt quote on the title page). At least you will not be expected to buy such gruesome items as I found recently listed in the For Him—For Her column of *Esquire*: "Nudie" Cuff-links, personalized cigars, Pulsating Panther Girl playing-cards ("just *feel* them in your hand"), Pixillated Pink Plastic Pachyderms ("raise a laugh at the dullest party"), "Nudie" Drink Mixers ("use them to break the ice"), the Klipette ("one quick turn will neatly remove the hairs from the ear or nostril"), and The Home Planning Set ("everything the amateur architect needs to plan his home"). The combination of these objects builds up into a reasonably macabre picture of the American Home still resting, even at Christmas time, apparently on its familiar foundation (see Mr. Geoffrey Gorer) of Sex, Personal Daintiness and Rugged Individualism.

* *

Finally, let me close my notes this week by wishing a very merry Christmas to all my readers.

ASTRAGAL

LETTERS

Michael Waterhouse, P.R.I.B.A.

D. H. Delamont

D. G. Cornfield

The Architects Benevolent Society

SIR,—I am appealing to your readers this Christmas on behalf of this Society, which helps Architects and Architects' Assistants and their families when in need. Though we cannot disclose their stories, many sad cases come before us during the year. If every member of the profession contributed even a small sum, we should be able to give really adequate help where it is needed.

Will you look upon this letter as a personal appeal to you, and send me half-a-crown, or more if you can, as a Christmas Gift to help those in distress. So may your New Year be happy in the knowledge that you have helped others.

London MICHAEL WATERHOUSE

Hand and Foot Throttles

SIR,—ASTRAGAL'S note on hand throttles for motor cars, in the JOURNAL of November 25, overlooks the point. America is re-discovering the hand throttle because the development of roads now allows traffic to travel for long distances at almost constant speed. Research shows that on modern highways outside city limits the predominant tendency is for this speed to be 48 m.p.h. Fatigue results from keeping the right foot in one position for considerable periods.

Unfortunately, until some nebulous new era, British roads force the driver's foot to dart from throttle to brake with constantly varying pressure on both.

Hamble, Hants. D. H. DELAMONT

Architectural Assistants

SIR,—With further reference to your editorial of the November 18 issue, wherein it is estimated that 2,000 registered architects may soon be entering the profession annually. This situation immediately brings to mind a query I have often raised as to where, in the future, is that useful individual the Assistant to be drawn? He appears non-existent as far as the Institute itself is concerned. The articled pupilage system has now been practically eliminated in favour of full time education, and a situation must soon arise wherein the younger qualified man will be forced to accept a junior position and salary, having at the same time the financial and other commitments that qualification brings.

Instead of saturating the profession with fully-fledged architects with little or no practical experience, why should the Institute not offer the assistant a recognizable status, such as that of Registered Architectural Draughtsman—to be attained by examination ensuring a high standard of draughtsmanship, and sound knowledge of building construction, surveying, and other fields which make him so essential to the smooth functioning of the average practice.

This would provide the safety valve to a

THE REBUILDING OF WARSAW





Of all European cities Warsaw was the most utterly devastated in the war and in spite of remarkable reconstruction efforts during the three and a half years since its liberation it still remains largely a city of ruins. It is estimated that clearing the rubble alone will take ten years. The two recently taken photographs above show a typical view in the centre of the Old Town and the site of the old Ghetto, once the most densely populated area in Europe, which was the scene of the insurrection of 1944. The Germans, in retaliation, destroyed the Ghetto systematically and left it the desert shown in the photograph. Warsaw's reconstruction plans include the restoration of the Old Town, beneath which traffic will now pass in a tunnel (see AJ, November 11) and the building of a model residential neighbourhood on the Ghetto site. With this exception, all the new housing areas planned are on the fringe of the city in self-contained neighbourhood units separated by green belts. Some of these are already under construction; one of them is shown below on the left. Progress has also been made in rebuilding some of the central shopping streets (below, right). There is a shortage of steel and the buildings have weight-bearing brick walls (which will later be rendered), the bricks being salvaged from the ruins.





potentially dangerous situation, a half-way house absorbing the surplus students, to be bettered according to ambition or circumstance. The practising architect would have a useful yardstick when engaging assistants, a new standard which would be welcomed by both students and principals alike.

The basic fact will sooner or later have to be accepted by the Board of Architectural Education—that we cannot all get to the top. There isn't room anyway, and a great many must be content to turn and oil the wheels. No mean task, for the greatest conception depends for its realisation on the loyal and persistent labour of others, be they welding pencils or spades.

Birmingham D. G. CORNFIELD

IN PARLIAMENT

The appointment of a committee to consider the problem of preserving houses of historic or architectural interest was announced in the Commons by the Chancellor of the Exchequer, Sir Stafford Cripps.

He said that on more than one occasion in the last year or so it had been necessary to make special provision from public funds in order to secure for the nation certain houses of national importance, which might otherwise have been in danger. The Government considered, however, that it was unsatisfactory to have to deal with such cases in a piecemeal way and that it was necessary to work out a general policy.

In order that the various wishes might be fully ventilated before any general decisions were reached, he had decided to appoint a committee, with the following terms of reference:—"To consider and report what general arrangements might be made by the Government for the preservation, maintenance and use of houses of outstanding historic or architectural interest which might otherwise not be preserved, including, where desirable, the preservation of a house and its contents as a unity."

The members of the committee are:—Sir Ernest Gowers (chairman), Lady Anderson, Mr. W. H. Ansell, Professor A. F. Blunt, Sir Cyril Fox, Mr. J. D. Imrie, and Mr. J. C. Little.

Six steel-framed buildings, licensed by the Ministry of Works, were at present under construction in London for use as private offices. Mr. C. W. Key, Works Minister, told Opposition Members at question time.

The total area of office space provided would be about 146,000 square feet. This compared with 11 steel-framed buildings, providing about 1,340,000 square feet of office space, at present under construction for Government use.

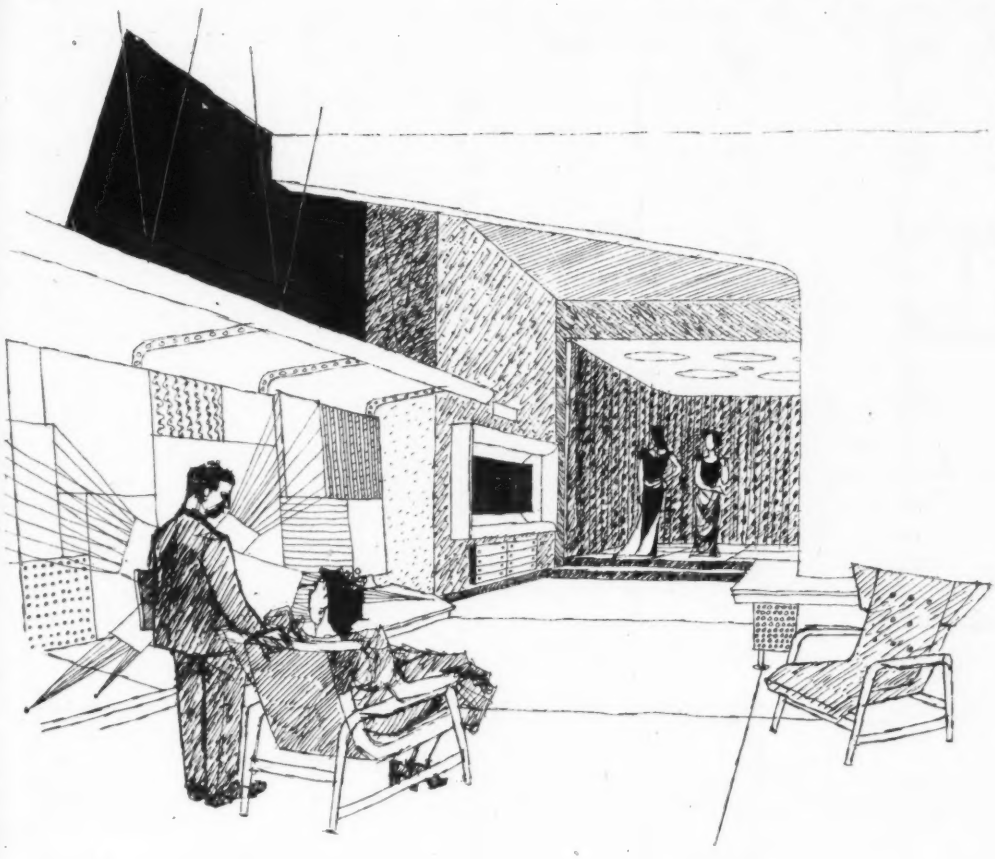
Voicing the dissatisfaction of the Opposition, who have raised this matter before, Mr. F. J. Erroll (Con.—Altrincham and Sale) asked: "Is it not a disgrace that far more Government building should be going on in London at the present time than building for private purposes?"

Mr. Key's reply was:—"No, because the building for Government purposes will release a very much larger amount of accommodation than is being here provided—accommodation which is under requisition at the present moment."

When Mr. Orr-Ewing (Con.—Weston-super-Mare) asked the Minister of Health whether any further tenders for permanent aluminium houses were now to be approved, Mr. Aneurin Bevan said that no more contracts by local authorities were under consideration.

Mr. Orr-Ewing pointed out that aluminium buildings were being approved for such things as schools.

The Minister agreed that this was the case, adding: "This question, however, deals with houses and unless aluminium houses go down in price we cannot give any further contracts."



Left, the display room with its stage at the far end. The long display feature on the left is in cork covered with felt; its cantilever is in aluminium. Below, the entrance door in armour plate glass in a metal alloy surround. The glass side screens are similarly treated.

DESIGN CENTRE IN MAYFAIR

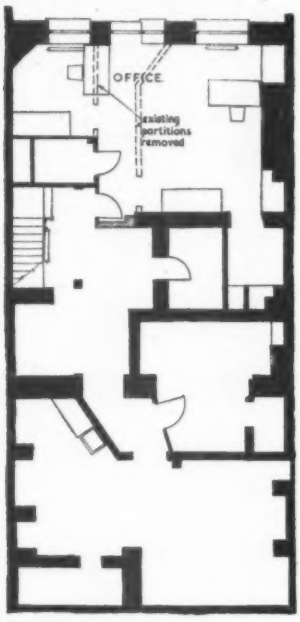
FOR THE BRITISH RAYON INDUSTRY

BY MAXWELL FRY & JANE DREW
ASSISTANT ARCHITECT: DENNIS LENNON

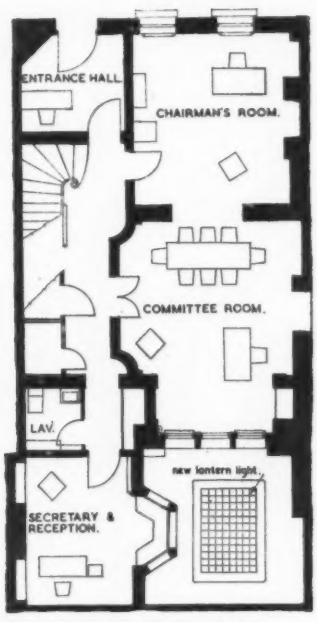


GENERAL.—The task consisted in converting an existing war-damaged house at 1, Upper Grosvenor Street, W.1, into offices and showrooms for the British Rayon Industry Design Centre and the British Rayon Federation. A large display room was to be provided, together with space for models to change in, a reference library, press and information offices, and reception and committee rooms. The scheme was partly a result of the recommendation contained in the Government working party's report on the Rayon Industry that a design centre be created to encourage and foster good design for rayon and to develop its uses. Dennis Lennon, who was responsible for the detailed design and supervision of the work, has since been appointed Director of the Design Centre.

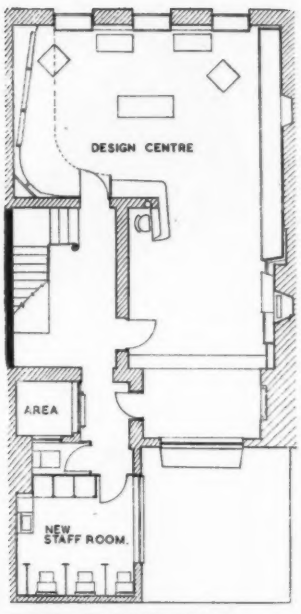
PLAN.—Ground Floor: Offices for the British Rayon Federation, including a reception room and a committee room. First Floor:



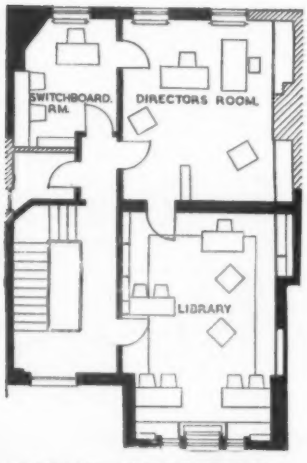
BASEMENT PLAN



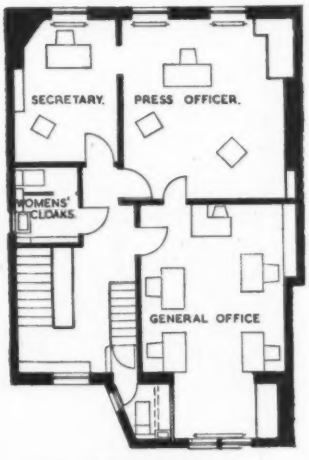
GROUND FLOOR PLAN



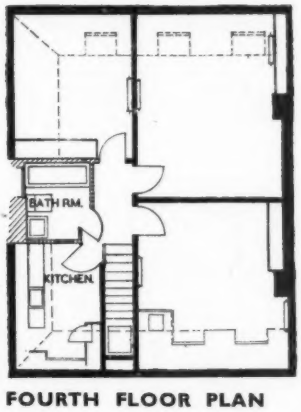
FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



FOURTH FLOOR PLAN



SECTION THROUGH STAFF & RECEPTION ROOMS

NEW WALLS.
EXISTING WALLS.

(Scale throughout: $\frac{1}{16}$" = 1'0")

Main display room and models' changing room. As the display room provides a stage at one end, the mannequins' room was built up from an existing flat roof and connected with the stage by a small lobby. Second Floor: Office of the Director of the Design Centre and library. Third Floor: Press and information offices. Fourth Floor: Liaison and general offices. Basement: Oil-fired boiler for central heating.

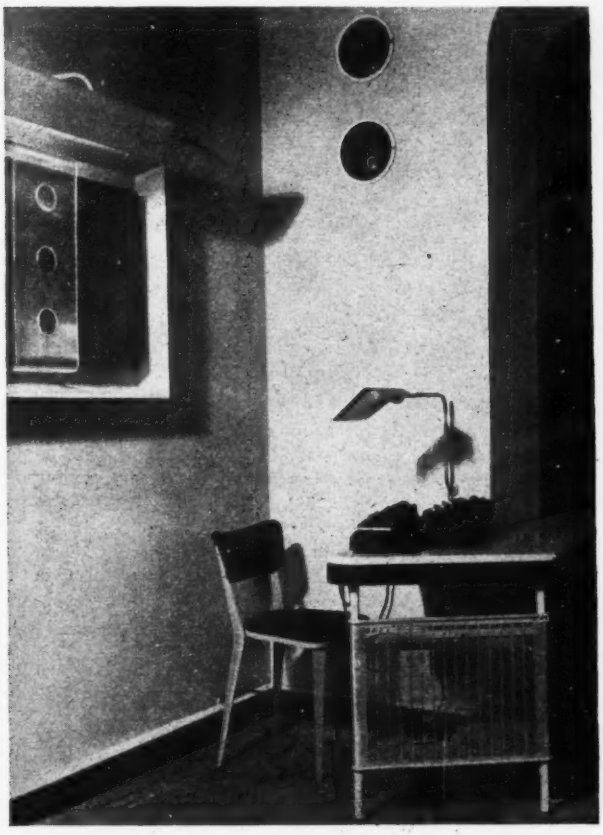
CONSTRUCTION. — New R.C. roof over basement and models' room. New partitions are in 3 in. breeze, plastered.

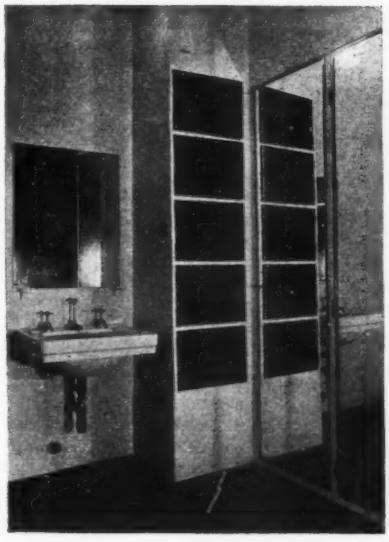
ELEVATION.—This was not changed except to fit a new front door of armour plate glass.

INTERNAL FINISH.— Ground Floor: the existing panelling being a good example of its kind was retained and repainted in white and cream with a blue ceiling. The reception room was wall-papered and a Roman travertine marble fireplace surround was installed. First Floor: the walls of the models' room are painted, as is the built-in deal furniture. The floor is cork on concrete. Floors to the bathrooms and kitchen are rubber covered; the built-in furniture and walls are painted. An existing partition between the original front and back rooms was removed in order to provide a large display room. A fibrous plaster ceiling and a curved lighting trough have been fitted

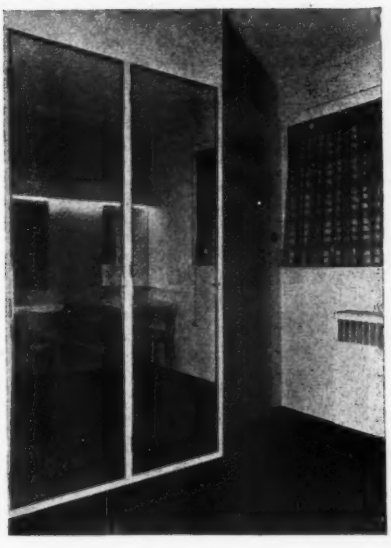
DESIGN CENTRE *BY MAXWELL FRY & JANE DREW*











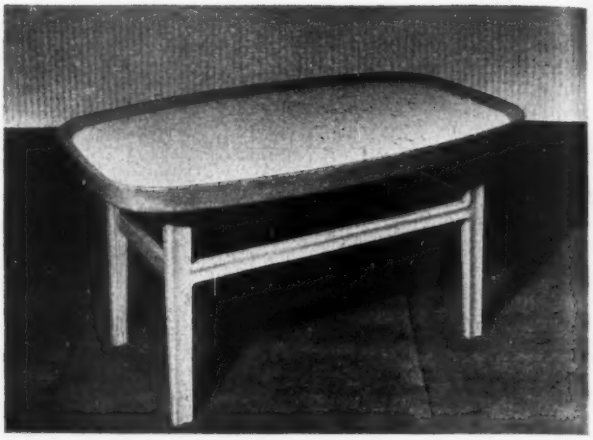
over the stage in this room. The floor of the stage is in Roman travertine. The walls are plaster except for one wall which is curved and is in fluted fibrous plaster. The light fittings are in troughs of painted sheet metal. New metal windows have been fitted.

SERVICES.—A new telephone booth has been installed on the ground floor with a glass ceiling and perforated plywood for ventilation. The central heating system has been so designed that no pipes are anywhere visible throughout the house; they are hidden behind panelling or cupboards. Heating is by a thermostatically controlled oil-fired boiler and by gas fires of the type known as silent beam. For contractors see page 588.

Top, left, a corner of the display room showing the stage and one of the display panels. Top, right, a desk in the display room in perforated aluminium sheet with a wooden top inset with rubber. Above the desk are spotlights focused on the stage. The exhibition frame on the wall has a sheet of perspex inset with magnifying glasses travelling on runners. Below, three views of the mannequins' changing room. There are five small lockers on the right of the wash-basin and large mirrors on the wardrobe doors.

ASSISTANT ARCHITECT: DENNIS LENNON



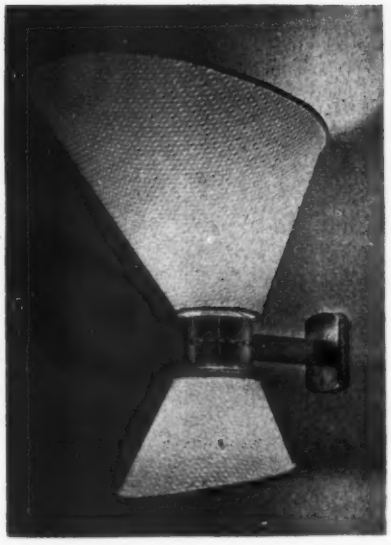


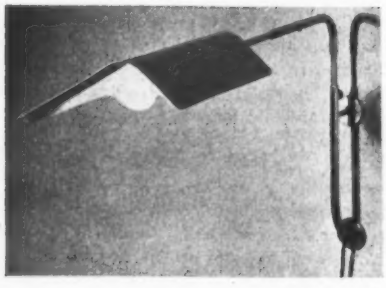




The furniture on this page was designed by Dennis Lennon and supplied by Dunns of Bromley; the desks were supplied by Heals. The chairs are in mahogany, the desk and tables in sycamore and mahogany. The desk top has a red leather inlay, lightly varnished.

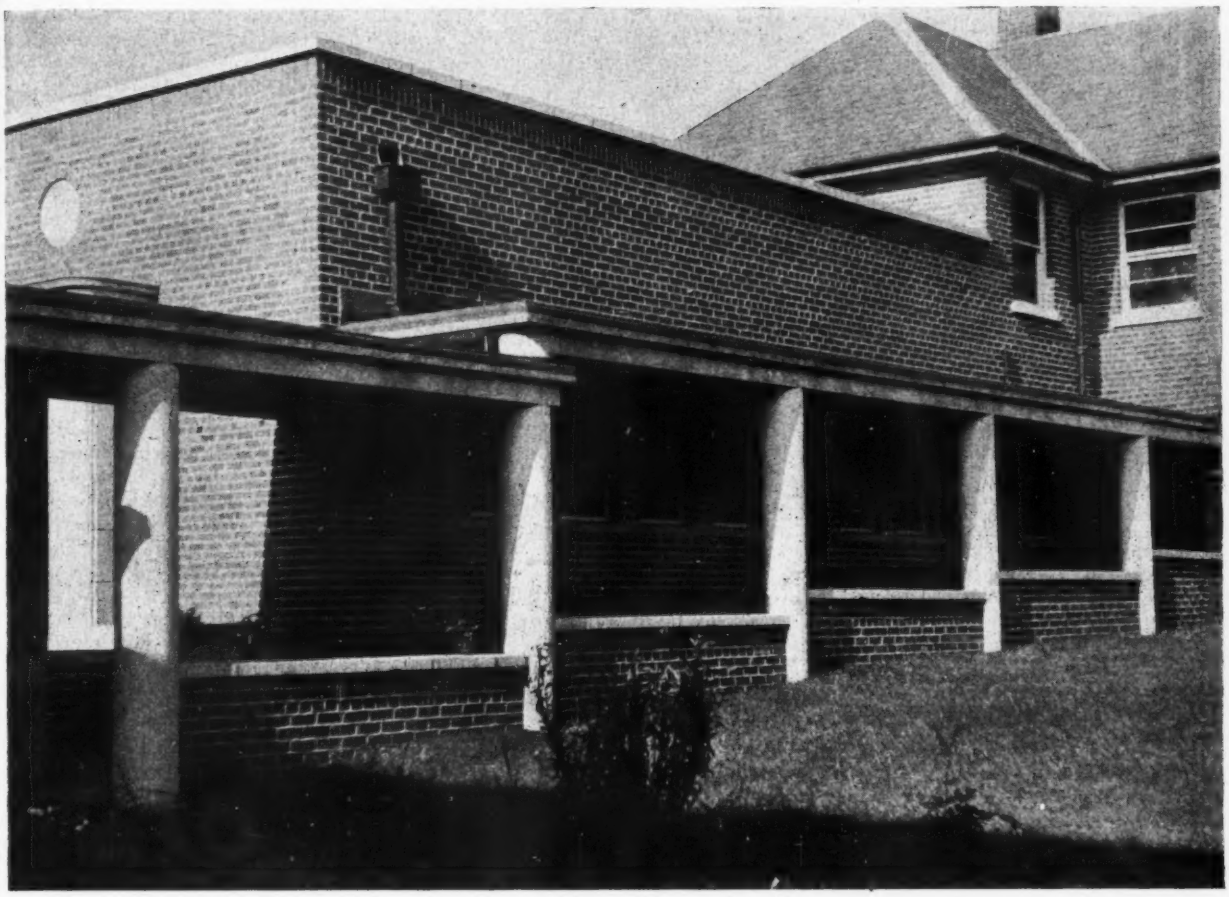






Left and above, right: two lamp fittings designed by Trevor Dannat. The one on the left is an adjustable desk lamp in brass.

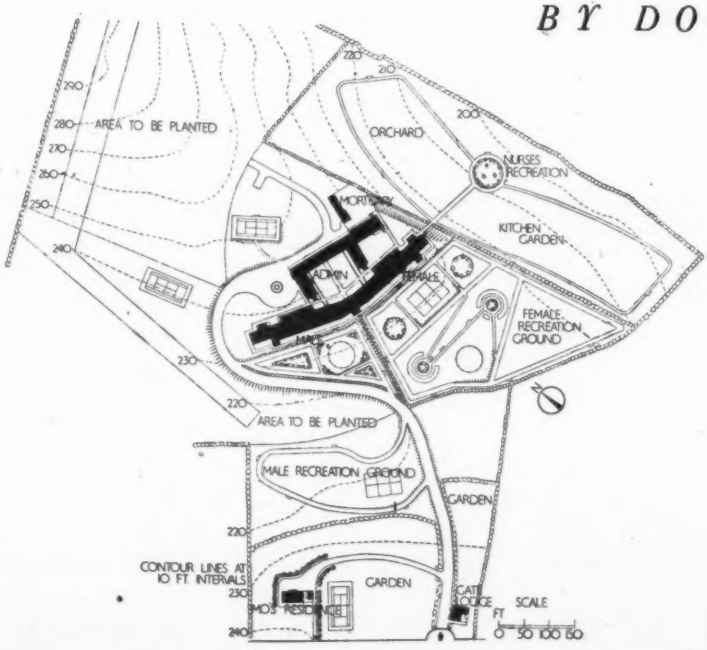
RAYON DESIGN CENTRE IN MAYFAIR



The covered way between the ward units and the administration unit. The chapel is on the left.

SANATORIUM AT CAVAN, EIRE

BY DONALD A. TYNDALL



SITE PLAN

GENERAL.—This seventy-bed Sanatorium was erected by the Cavan County Council for the treatment of tuberculosis. The buildings were started in 1940 and completed in 1942.

SITE.—The site, about two miles outside the town of Cavan, is situated on a hill side overlooking open country. Shelter belts of trees have been planted on the north and west side of the site to give protection from prevailing winds. All wards face south. The buildings are approached from the main road, which is on the south end of the site.

PLANNING.—The wards have been designed on the veranda type ward system, with folding doors opening the whole width of



Veranda to ward units.

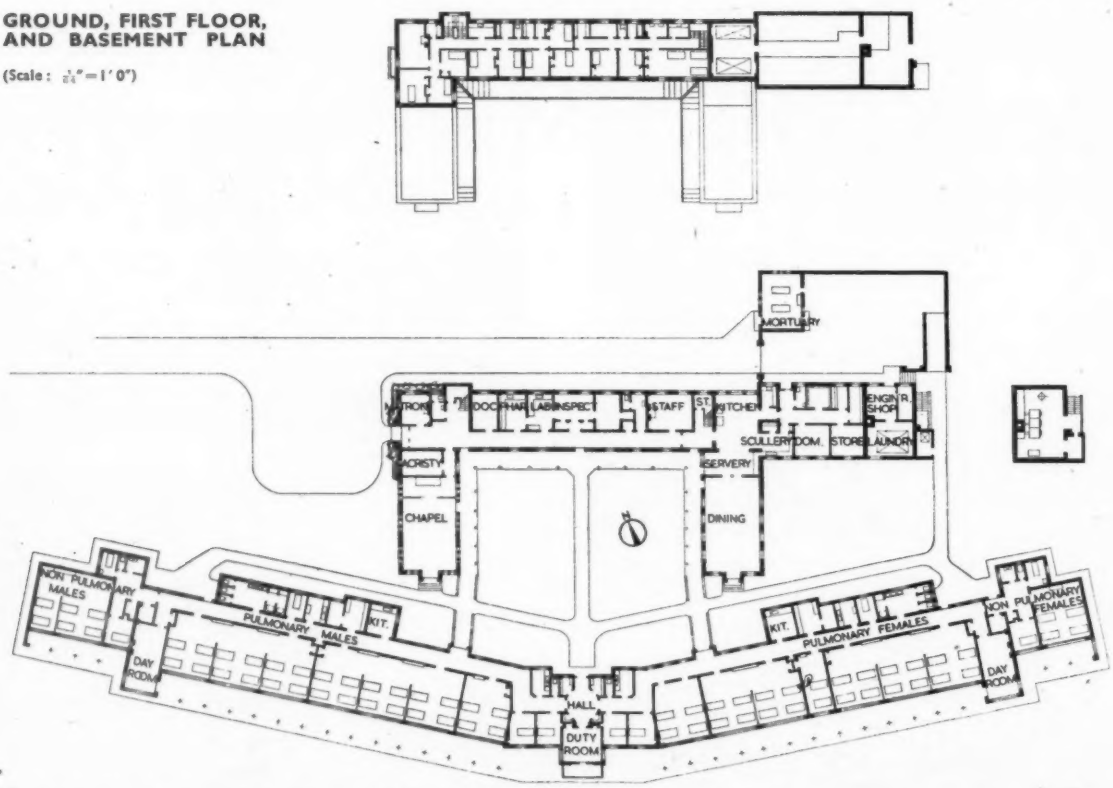
the wards, on to terraces which span the south frontage. They are arranged in standard units of twelve, four, two and single wards. The large wards are divided by glazed screens into units of four, and are reached by a central corridor, on the north side of which are service rooms. The administration unit and the chapel and dining hall are below the ward unit and connected to the wards by a covered way.

CONSTRUCTION. — The main walls are of local brick and are faced with a rustic facing brick, with limestone surrounds to the main entrances. The main roofs are slated with Killaloe slates. The flat roofs to the chapel, dining hall, mortuary and covered ways are of reinforced concrete, and finished with asphalte. The staircases are also of reinforced concrete construction with a patent rubber finish and terrazzo margins and skirtings. The windows of the ward units are standard steel type hospital windows. The windows to the administration unit are wooden sashes of a normal type.

FINISHES.—The floors of the wards, day rooms, chapel and dining hall are of Borneo teak wood block. The corridor finishes are the same as those used on the stairs. The floors of the sanitary

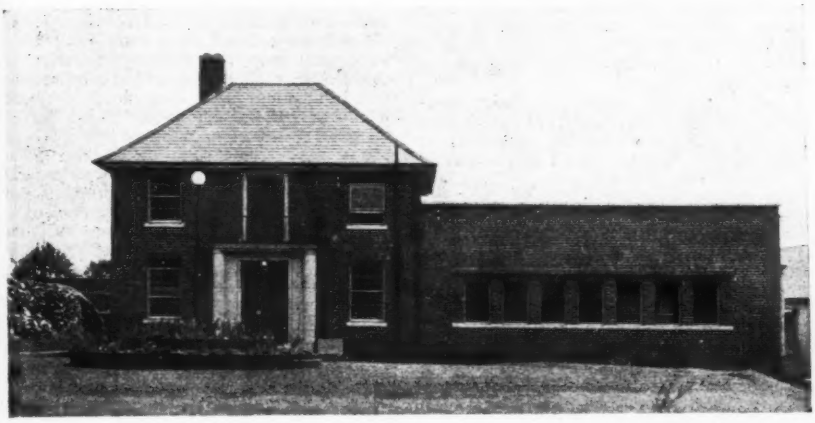
GROUND, FIRST FLOOR, AND BASEMENT PLAN

(Scale: $\frac{1}{64}$"=1'0")

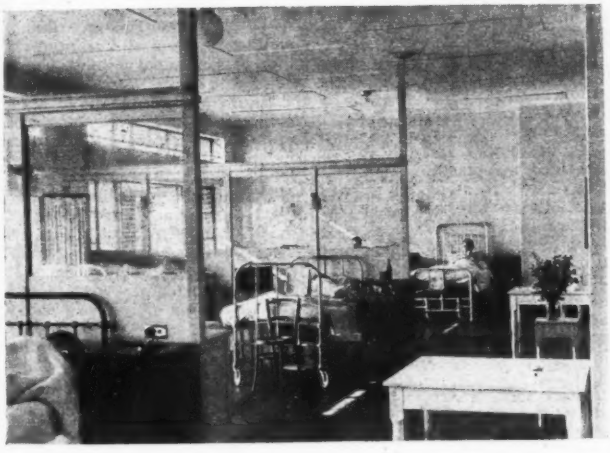


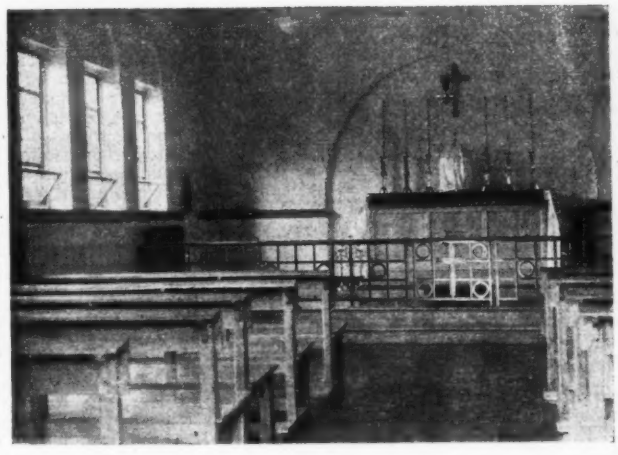
SANATORIUM AT CAVAN, EIRE:

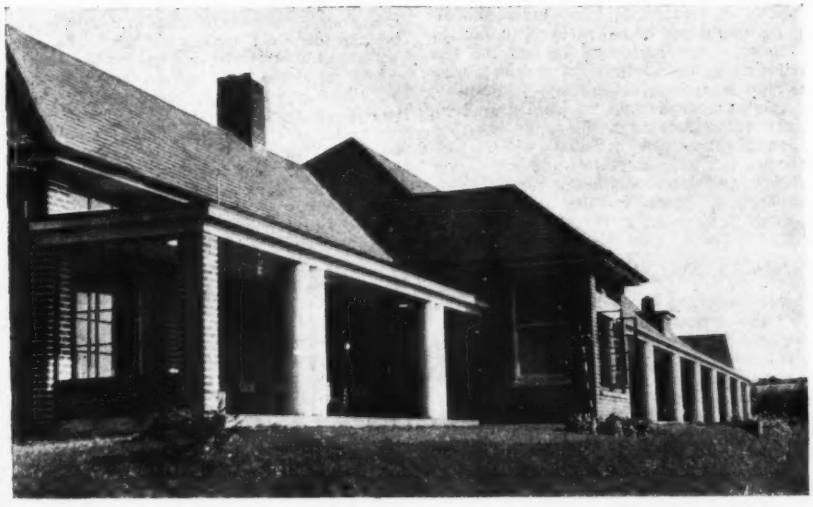




Above, the south elevation of the ward unit; left, the administration unit; below left, an eight-bed ward; below right, the chapel; bottom, general view of the veranda.







annexes are terrazzo and the walls are tiled to a height of 6 ft. The plastered walls and ceilings are finished with flat oil paint, a shade of pale flesh pink being used in the wards. The stairs, corridors, doors, and the surrounds to the windows have a painted dado in a shade of light wedgwood blue.

SERVICES.—Heating is by low-pressure hot-water radiators, with flush panel type radiators in the ceilings of the wards. An independent hot water boiler supplies the domestic hot water. Normal hospital electrical equipment is provided.

For contractors see page 588.

DESIGNED BY DONALD A. TYNDALL

SOCIETIES AND INSTITUTIONS

Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

CID & BCC

Robert F. Wilson

November 24. COLOUR AND LIGHTING IN FACTORIES AND ON MACHINES. A paper read at the RIBA, 66, Portland Place, W.1, by Mr. Robert F. Wilson, Director of the British Colour Council, during the course on colour and lighting organized by the CID and the BCC.

Robert F. Wilson: The greater recognition this important subject receives, the better will our country be able to face the fierce industrial competition of coming years. Moreover, workers should be better equipped in matters of health and able to face work cheerfully and also enjoy their leisure. Incidentally, when I speak of workers I do not refer to one class, I refer to all who work in factories and offices, whether they be labourers or managing directors. The improvement in surroundings affected during the past few years has been responsible for not only improvement in health, but also increase in output in some cases to more than 10 per cent. We should appreciate the fact that this scientific development represents a major change in national and international life. Some employers do not realise the value or the necessity of improving working conditions, and, on the other hand, I have seen cases where employees have deliberately disfigured and damaged the efforts made on their behalf to improve their surroundings.

It is now 15 years since my Council was first called upon to advise in colour and lighting in industrial buildings, including the colouring of machinery, and it was brought home to me very forcibly that the mere expression of personal preference was of little value unless backed by scientific reasoning. Since that time I have, on behalf of my Council, advised upon the decoration of new factories and the re-decoration of old ones in many parts of the country.

PARTNERSHIP OF ART AND SCIENCE

As I see it now, Britain can take the initiative in this subject, a subject in which æsthetics and science are partners for the first time, since their divorce at the beginning of the industrial era, on a recognized large scale. Art, in which I include Architecture, Design and Colour, must be recognized as an equal partner with Science if there is to be peace, advancement, and happiness in the world.

I must develop points I have mentioned, and the people concerned are: 1. The Architect; 2. The Consulting Engineer; 3. The Lighting Engineer; 4. The Decorator; 5. The Machine Builder. I know there are other people who contribute to the welfare of working staff and I shall refer to their work in the course of my talk. Obviously the work of the Architect is or should be of prime importance, and the types of buildings he will be concerned with fall under one of the following headings: 1. Planning a complete new factory; 2. Making additions to an old factory; 3. Remodelling an old factory where extension is impossible. In the case of No. 1, the Architect really can plan unhampered as he might be in cases 2 and 3.

I have advised on a number of factories from the time the plans were first prepared, and on one particular site situated in the country, where there was ample suitable labour available for the factory, and good rail and road communication, we had a free hand even to the spending of £2,000 for garden shrubs. These were specially selected to harmonize with the bricks and the blue-green tiles which lined the rectangular ornamental pool which extended along the centre of a dual road leading to bronze doors, at the entrance of the building. The rooms were scientifically lit and coloured for the purpose for which they were to be used, and the factory fitted perfectly into its rural surroundings and no one could say it was a blot on the landscape. This was the ideal, and we can only hope that greater opportunities will be afforded for architects to plan on similar lines.

In the case where an architect has to make additions to a building he cannot feel the same satisfaction as Architect No. 1, since as I have seen, he may have different floor levels to deal with, old fashioned small windows to enlarge, and encounter difficulties he would not be called upon to face in an entirely new building. In fact, he has to modernize the ideas of an architect of a previous generation or century. Moreover, he cannot always plan to allow for continuity of production in the same way that he could in a new building where raw materials can be unloaded at one end of the building, and after continuous processes of manufacture, come to the packing and despatch department at the other end.

RE-MODELLING OLD FACTORIES

The re-modelling of an old factory is probably the most unsatisfactory of all, especially where the business began as a small family concern and has grown beyond the capacity of the factory, where buildings erected all round make it impossible to expand and consequently systems of production cannot be improved, and where the old construction, makes the application of new lighting and colouring systems difficult. I had particularly interesting experience of these types when visiting factories in connection with hosiery, wool, and furniture working parties. The chief difficulties which I have had to contend with in the three examples quoted were, in No. 1 the application of paint to surfaces in new buildings, particularly fresh plaster and new brickwork. I find such surfaces vary considerably according to climatic conditions—*i.e.*, factories on the North East Coast, where one had to contend with the damp salt air, and factories in the South, say on the Great West Road, where atmospheric conditions are kinder. In these cases, after preparing a colour scheme, I advocate that if there is no one with the necessary technical experience available, the Building Research Station should be consulted. There is, of course, the excellent MOW publication on the painting of buildings (Rev. 1948).

It will be realised that some paint firms have their own research departments, but the British Colour Council cannot recommend individual firms, even though they are members. It does, however, give a list of all paint members upon application. There are several problems in those cases when additions are made to existing factories, and the chief as far as I am concerned is the decoration of the ceiling, walls, etc., of a shed or factory where old and new surfaces meet in an enlarged room. Here again the specialist must be consulted. I have come across cases of dissatisfaction, and upon making investigations find that the dissatisfaction in many cases is due to the using of unskilled labour working without expert guidance or technical advice. This procedure represents a waste of time, labour and money, as well as, of course, good paint.

MISUSE OF PREMISES

The re-modelling, lighting and painting of an old factory is sometimes almost heartbreaking, although I have been amazed at some of the transformations I have seen, especially in the Yorkshire area. Many of the old factories have narrow staircases with stone steps, often badly worn and dangerous to workers. Rooms with small windows, and antiquated machinery with overhead drives and the accumulated oil of years splashed against the walls, which paint can never cover. I have seen holes in the form of doors roughly banged through walls, and machinery so placed that it is dangerous to the unsuspecting visitor.

In some cases rooms are being used for purposes for which they were never intended. To quote two examples. In one building where food was being prepared I found condensation on the ceiling and beams to such an extent that the water caused paint to shale off very quickly after repainting. In my report I recommended that an architect and a paint technician should at once be consulted. I understand that this was done and a vent allowing warm air to circulate near the roof solved the problem. The same procedure followed my visit to a bakery in the Midlands, where the fumes from furnaces acting on particles of flour which settled on the walls, speedily discoloured a freshly painted surface. The trouble to a large extent was eliminated by the installation of an air vent and the workers were not so affected by heat. I could give you many instances of how conditions might be improved by understanding simple factors, but until there is a full realisation of the value of this æsthetic and scientific aid to developing health and production, we shall be faced with these problems. There is another factor to be borne in mind, and that is that untidy surroundings generally produce untidy minds, and such minds are not conducive to attaining that high standard of workmanship which is necessary if we are to improve or even maintain our position in a highly competitive industrial world.

I would like to refer briefly to several principles which affect the decision of a consultant advising on the scientific lighting

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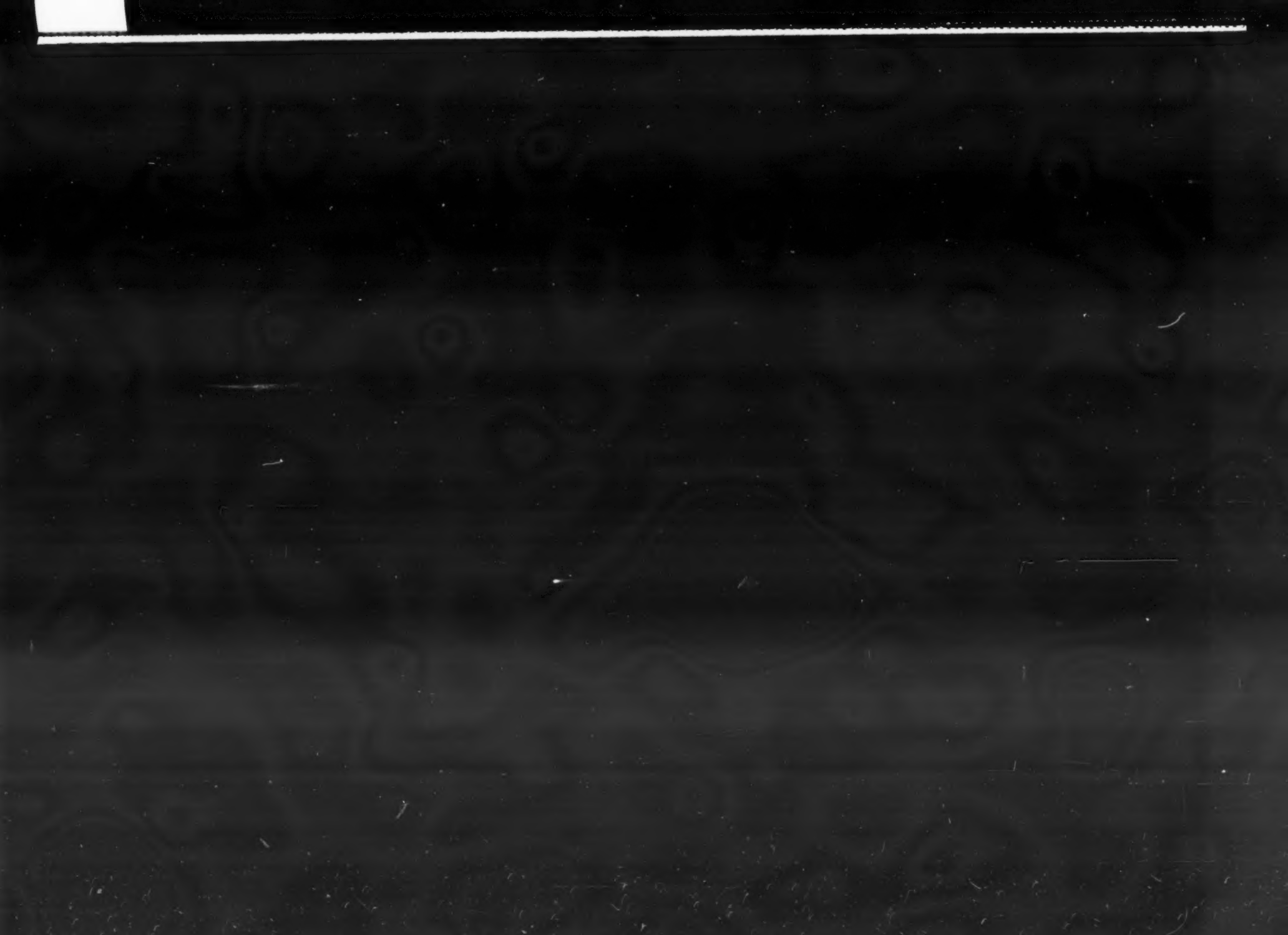
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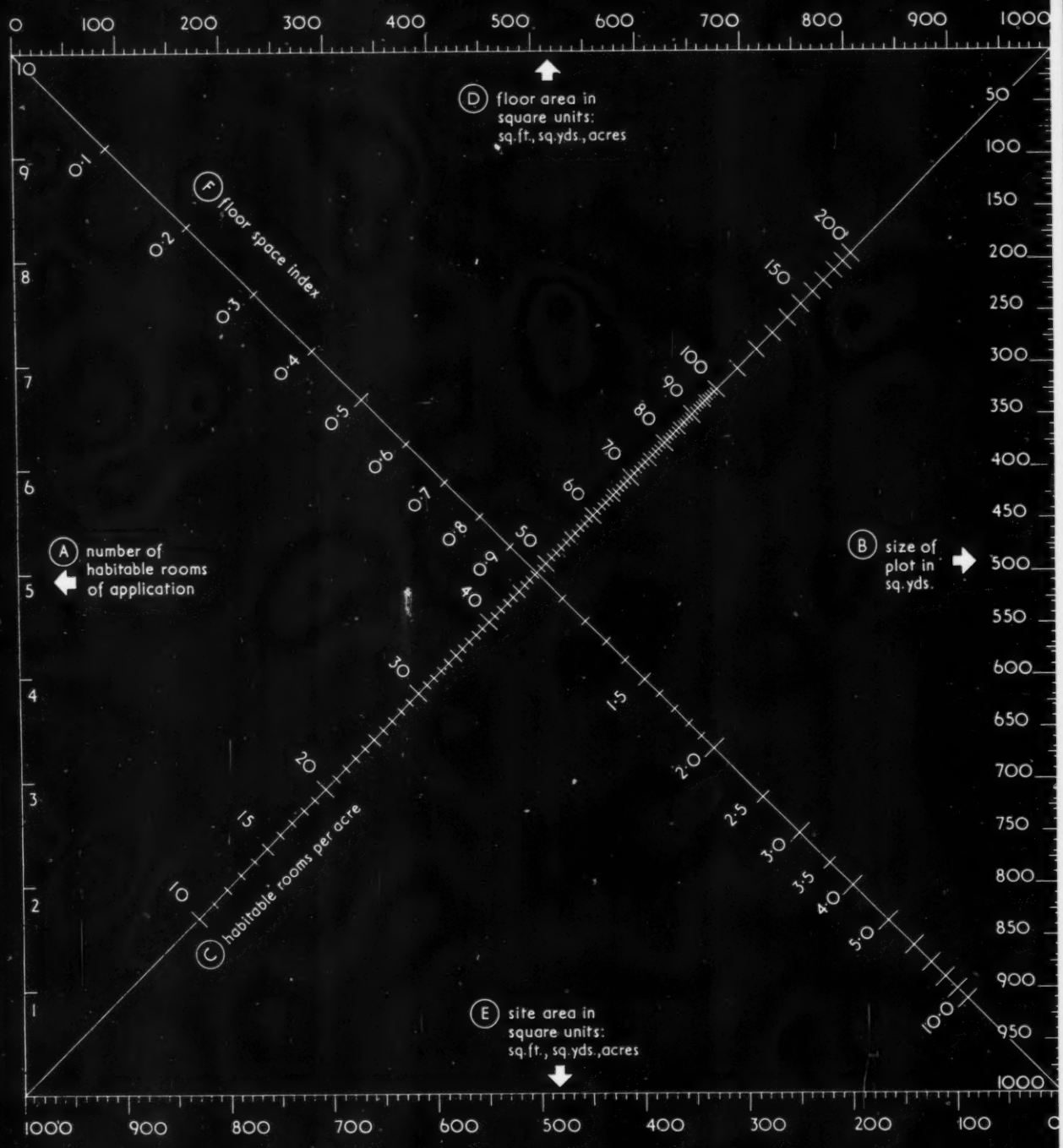
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to obtain the number of habitable rooms per acre connect A and B and read C
to obtain the floor space index connect D and E and read F

TIME SAVING CHART FOR PLANNING DEVELOPMENT CONTROL.

Compiled from information supplied by L.A.E.Chaplin, A.M.I.Mun.E., A.M.T.P.I.

4.N1 DEVELOPMENT CONTROL CHART

This Sheet, on the practice of town and country planning, deals with two important aspects of the control of planning development under the Town and Country Planning Act, 1947. They are the density of building accommodation expressed in terms of floor space indices and residential density expressed in terms of numbers of persons an acre.

The chart illustrated on the face of this Sheet provides a method whereby repetitive calculations to work out required floor space and densities may be eliminated. Its construction is based upon the properties of similar triangles.

Floor Space Index

According to the advisory handbook issued by the Ministry of Town and Country Planning (*The Redevelopment of Central Areas*, HMSO, 1937, 12s. 6d.) the *Floor Space Index is the ratio between the total area of the floors contained within a building (or buildings) and the area of the plot or other land area on which it stands. The Floor Space Index for any building or buildings is obtained by dividing the total area of all the floors within the buildings by the area of the land plus half the width of the adjoining streets. In calculating a Floor Space Index the floor area of a building should be taken as the sum of the roofed areas of the building at each floor level, including all wall thicknesses, corridors, staircases and basements.*

If the floor area and the site area are known the chart will give the value for the floor space index without the labour of division by connecting relevant points on D (floor area) and E (site area) with a straight-edge and reading the intersection on diagonal F (floor space index). It should be noted that any of the three factors may be read off when the other two are known.

Habitable Rooms per Acre

Figures for these are required in order to work out residential densities which are expressed in terms of number of persons an acre. Taking one person to a habitable room as recommended by the Ministry of Town and Country Planning the number of habitable rooms to an acre will give the residential density which in turn regulates the number of persons to a building site or curtilage. When making an application for planning development permission, as required under the 1947 Act, it is necessary to state the number of habitable rooms if the application is for the construction of a building to be used wholly or partly for residential purposes. The number of rooms should include a kitchen, if it is also intended to be used as a living room but not otherwise. (*Model Form of Application for Planning Permission.* Circular No. 45, dated May 28, 1948. Ministry of Town and Country Planning. HMSO, 1948. 2d.)

From this information the number of habitable rooms an acre will be found by means of the following formula:—

$$\frac{\text{4,840 square yards}}{\text{site area in square yards}} \times \text{habitable rooms in application.}$$

The site area must again include half the width of the adjoining streets.

The chart will give the number of habitable rooms an acre without the need for working out the formula by connecting relevant points on A (number of habitable rooms of application) and B (size of plot) with a straight-edge and reading the inter-section on diagonal C (habitable rooms an acre). It should again be noted that any of the three factors may be read off when the other two are known.

It has been suggested that rooms exceeding six in a single family house should be ignored but, for convenience, the chart provides for 10 rooms. If the site area exceeds 1,000 sq. yds., the correct result will be obtained by halving the area and the number of rooms. Logically, it follows that both figures may be doubled without affecting the answer.

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and colour of a factory: (1) Indiscriminate breaking-up of wall surfaces may upset architectural balance, but if colour is used with knowledge it can emphasise good architectural lines. Only last week I was visiting a factory where a series of small offices had the window level dado height different from the lower part which was of half glass partitions. If one height had been decided upon, the offices would have gained in architectural appearance. (2) Since the revelation of colour is dependent upon light, it is essential that the direction and volume of daylight and type of artificial light is known before preparing a colour scheme. In this way reflective values of ceiling, wall and floor surfaces can be assessed. Personally, I like to put myself in the place of the operative actually doing his work, since it is only in this way that one can plan a colour scheme effectively. At the same time I welcome the presence of a lighting authority since we can remedy any glare or disturbing reflected lights. Lighting engineers have realized for some time that their function is to provide good visibility rather than merely to instal a lighting system.

While visiting the North last week, I saw a large drawing office in which the artificial lighting was all indirect, the light from splendidly designed bowls being reflected from a flat ceiling giving an almost shadowless effect. This reminded me of an incident during the war when I was advising a signal section of the RAF on colour and lighting. The glare from the lighting installation was so intense that the staff were complaining of headaches, but the difficulty was solved by reversing the lighting troughs and the reflected light from the low ceiling was adequate.

COLOUR IN FACTORIES

Restraint, control and direction are needed if colour is to be used intelligently. Cheerful colours can often be distracting to those whose work demands close attention. Because the "dark Satanic Mills" of yesterday had little or no colour, there is the danger that the well meaning enthusiast will go to the other extreme and discount the good which could materialize from a conservative and well planned programme. Colour is not an end in itself, it must be used with a purpose.

We must remember that factory decoration is not interior decoration. Colour should be the worker's guide and assist him in his visual problems. It should assist him in focusing his attention on his work rather than distracting it with intense colours within his field of vision. Good colour schemes provide uniform seeing conditions, since extreme contrasts in the light and dark are avoided in such schemes. Overhead distractions should be avoided and pipes, whether overhead or near walls, should be, generally speaking, the same colour as the background, with identification colours applied where necessary.

MACHINERY

I find machinery a somewhat difficult subject to tackle in any factory, since no two firms of machine builders have the same colours. The difficulty is made greater since so many firms use imported machinery and, here again, colours differ. It would seem that if the machinery could be given a suitable undercoat of paint before leaving the machine makers' shop and given a finishing coat *in situ*, the question of obtaining a harmonizing colour scheme would not be so problematical. All operatives should be able clearly to see the material upon which they are working against a suitable background. The processing of metal against a brighter metal background should be avoided. For instance, if bright steel or copper is being worked, a matt non-reflective background should be provided, the idea being to eliminate as many reflected lights as possible.

When first visiting an industrial building upon which I have been asked to advise, I like to adopt the following procedure. Walk through the works with the works director and meet the architect, the works manager, lighting engineer, personnel manager, first aid sister, security officer, welfare officer (if there is one), canteen manageress, maintenance and store foreman, as well as managers of departments. In this way it is possible to obtain the prevailing atmosphere and get a general insight into conditions in the factory. Whether there are good relations between management and staff, what percentage of absenteeism, what reaction there is to changes in colour and light; listen to the ideas of the people I have mentioned; what proportion of staff patronize the canteen; what are sports facilities, etc. All these things matter, since they are all part of the lives of the people whose working surroundings we are planning.

At times it is possible to give confidence to one of the important staff I have mentioned by explaining reasons for taking certain action, and moreover, I usually find they like telling someone outside the firm about their work and how they do it, as well as asking advice. I do regard those people as being very important since they know so much about the factory and the workers, and generally speaking are keen on their work and welcome any improvements that can be made. It is of little use having a very finely designed factory, well lit and coloured, if we lose sight of the worker as a human being in these beautiful surroundings. At times I have felt that it should be somebody's business on the staff to look after what are only considered to be little things. I will give you one instance from my own experiences.

Earlier in the year I visited a factory of which the managing director was very proud, and during our tour he asked me what I thought of the architecture, lighting and decoration. I had to say that while I appreciated very much the things to which he had referred, I could not understand anyone with any appreciation of good design or tidiness leaving a large glass case containing trophies in the dirty condition that I saw it, with the cups, shields, etc., tarnished. We went on to the canteen, and after showing me the menu he said: "Well, now you can't say anything about this place," and I said, "Well, I suggest that you look at the far corner." There was a dart board with the scores chalked up on a slate, and also some on the wall at the side. Strangely enough he seemed quite surprised that one ever noticed these things. It was equally strange to me that people who can take such interest in the larger things could not see how important the smaller things were, since untidiness creates an untidy mind and is not conducive to good workmanship.

LETTERING

A point which surprises me in many factories is the untidiness of notice boards and posters, which very often are pinned to all kinds of angles, and in some cases one pin has come out and the poster or notice is left flapping.

But I think probably one of the worst faults I have come across is the lack of thought given to lettering. I have visited many canteens and seen wonderful meals prepared, but very seldom have I seen a menu, which is usually written up on a slate or printed in large letters on a piece of paper or cardboard, well laid out with a good type of lettering. I do suggest that it would be money well spent for one person in the establishment, probably someone in the welfare staff, to be made responsible for attending to the points I have mentioned. I know that a number of firms are providing qualified officers to attend to the matters I have raised, but I would like to see it adopted more generally.

CLEANLINESS AND DIRT

I have, at times, had to refuse to advise on the decoration of factories until the place had been cleaned up, and I must say that when I made this announcement to the management they were very surprised, but with the two cases I have come across 4 and 7 tons of dirt respectively were taken away. Then, you will understand, it was possible to start decorating. In another case, the management having decorated the factory very nicely, asked me to suggest why they were losing staff to a nearby factory. I suggested that if they had cleaned up the very large and untidy yard through which the staff had to pass, and had surfaced it so that after rain it did not resemble a quagmire, they might get workers willing to come and work for them.

One factory in South London interested me very much, since the approach to it was anything but pleasant, but immediately upon entering the gates I was quite surprised to see grass and well laid out little plots of flowers, and I was more than interested to learn that two of the staff, who had been forbidden by the doctors to work indoors, had been employed by the management to create and maintain the grass and flower beds, and how enthusiastic they had become in a job which had been an unknown quantity.

Before closing I would like to suggest that if it has not already been done, an analysis be made respecting absenteeism, which may be due to colour. I will just give two examples before I close. One concerns a request I received to investigate what could possibly be wrong in the colour scheme, since some of the girls working in the room were reporting sick. I discovered that they had been kept for a week working solidly on a bright, unrelieved yellow material, and I discovered that the girls who had gone sick were allergic to this colour.

The other case concerns the importance of having the correct background for large articles passing before the eyes of inspectors on conveyor belts. If there are large tins, for instance, care should be taken to select a suitable background which does not clash with the wrappings of the tins, whatever colour they may be.

Publications Received

Building Construction, by E. G. Bartle. Sir Isaac Pitman & Sons Ltd. 6s.

Land and Property Owners, by Gordon Payne and A. G. W. Boggon. British Publishing Co. Ltd. 2s. 6d.

Journal of the British Society of Architects. 1s.

Town and Country Planning Act, 1947. Norman P. Greig. The Builder. 3s. 6d.

Handbook of Perspective, by W. G. Warren. Crosby Lockwood. 10s. 6d.

Fountains Abbey Then and Now, by Arthur E. Henderson. S.P.C.K. 2s. 6d.

Theory of Structures, by A. Morley. Longmans, Green & Co. Ltd. 21s.

A Wiltshire Home, by Dorothy Devenish. B. T. Batsford Ltd. 12s. 6d.

Modelled Architecture. P. R. Wickham. Percival Marshall & Co. Ltd. 12s. 6d.

Gardens in the Modern Landscape, by Christopher Tunnard. Architectural Press. 18s. 6d.

Fowler's Architects', Builders' and Contractors' Pocket Book, by J. Leask Manson. Scientific Publishing Co. 10s. 6d.

Roof Carpentry, by George Collings. Technical Press Ltd. 6s.

The Modern Flat, by F. R. S. Yorke and Frederick Gibberd. Architectural Press. 35s.

The Measurement of Stress and Strain. London Institute of Physics. 17s. 6d.

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TECHNICAL SECTION

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It is now fifteen months since the first post-war series Information Sheet appeared and this week the Technical Section is devoted entirely to the Information Sheet Library.

By December 30, 132 current series Information Sheets will have appeared and readers will find that Sheet 46.Z published in this issue is an analytical alphabetical index covering all Sheets in the current series published in the JOURNAL up to and including December 30.

INDEX

The alphabetical index has been prepared bearing in mind the fact that it will be cumulative from year to year. It has therefore been kept as brief as possible, entry annotations being kept to a minimum consistent with the provision of an adequate analysis of the Library's contents. To counteract this measure of austerity particular attention has been paid to the terminology of the main heading entries. These have been chosen with a view to evolving a system of generally applicable technological classification terms flexible enough to allow for future expansion. The index is of the dictionary type covering names and subjects in one sequence.

Manufacturers, Trade Associations, etc., appear as main headings once only followed by their range of products in alphabetical sequence. The word "The" has been omitted throughout. The word "Company" is always abbreviated as "Co." Christian names where forming part of a manufacturer's name follow immediately after the surname.

Trade Names appear as a main heading once only, and are cross referenced to the relevant manufacturer's name. Where trade name and manufacturer's name are identical no separate trade name main entry appears.

Basic Materials. These appear only as a main heading where general data are given, *e.g.*, aluminium.

Products. Where a Sheet provides general data only the index entry gives accordingly "general data" only. If constructional methods are covered in addition, the word "details" is added.

Constructional Methods, Parts of Structures, Services, Equipment, etc. The main aspect being sufficiently covered by the terminology of the main headings, generally, no annotation other than the item referred to on the Sheet is given unless a specialised aspect makes further annotation necessary.

REPRINTS

All current Sheets are now being reprinted and copies will be available early in February, price 3d. each, post free. An application form for reprints will be found on page 588 of this issue. Reprinted Sheets are revised before issue and do not require revision modifications by the collector.

SPRING-CLIP BINDERS

Suitable spring-clip binders for collecting Information Sheets are available, price 4s., post free. A contents list and copy of Instructions to Secretaries is included with each binder.

REVISIONS

During the last few weeks all published Sheets have been carefully examined to bring the information up to date and, with the exception of the important revisions noted below, are certified as current and correct. All revisions, whether previously notified to readers or not, are set out and a symbol (R.) has been included against all revised Sheets in the alphabetical index. The suffix (C.R.) after a Sheet indicates that it has been cancelled, revised and reissued. Cancelled Sheets are excluded from the index.

13.C12.—(Bottom line, centre drawing). Nos. 72-77 chimney (or well) stretchers are sandfaced upon the stretcher face only and not as shown.

14.L1. and **22.D1.**—Selling agents are now Bowaters Building Boards, Ltd., instead of Lloyd Boards, Ltd. The address remains the same.

14.M1.—The first column heading in each table should read: "Sight Size Height" instead of "Sight Size Width."

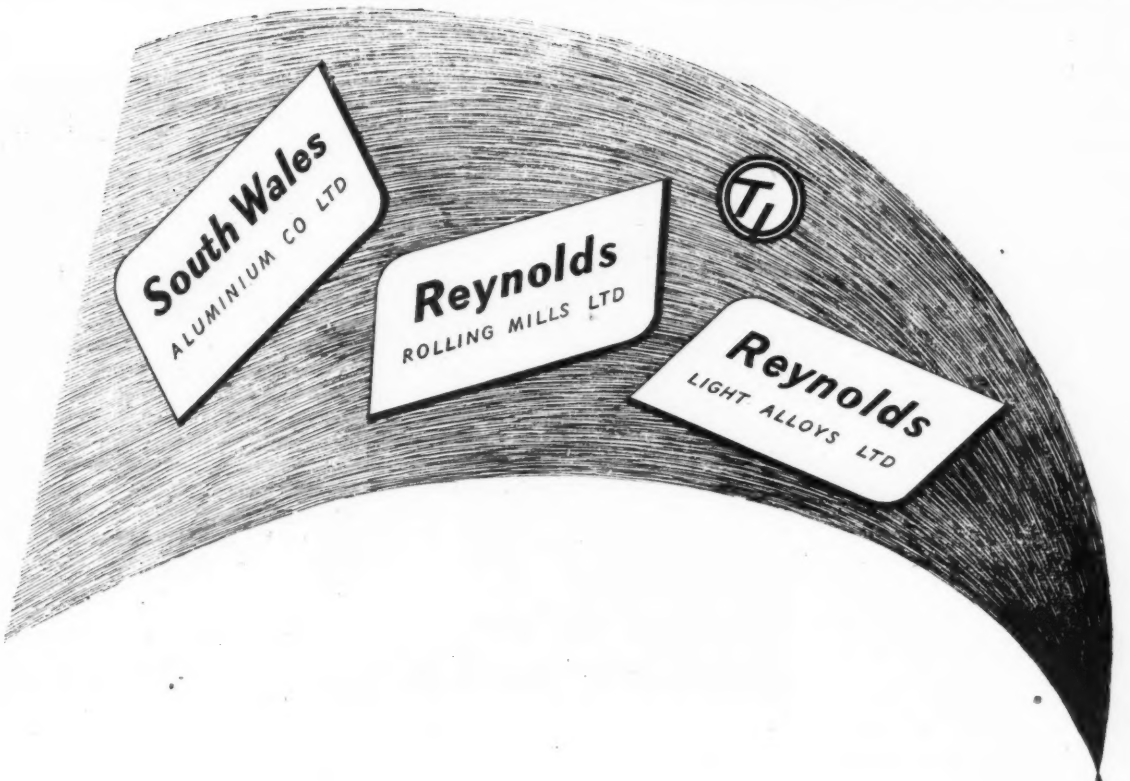
23.B1.—In the bottom right-hand drawing the dimension 5 ft. 9 in., establishing the position of the lower hinge, should read to the bottom of the hinge and not to the top of the hinge.

26.J5.—Scale on drawing should read $\frac{3}{8}$in. = 1 in., not $\frac{3}{8}$ in. = 1 ft.

27.B9.—M.s. strap hangers and $1\frac{1}{2}$ in. × $\frac{3}{4}$ in. suspension channels (at top of Sheet) are now fixed at 5 ft. 6 in. centres. The weight of the Gypklith panels is now given by the manufacturers as approximately $25\frac{1}{2}$ lb. per yard super and not 22 lb.

27.C1.—Methods of attaching tiles to battens. Left-hand detail: delete "special lost-head nails," substitute "small headed nails." Centre detail: delete "headless." Right-hand detail: delete detail entirely.

29.D1.—The 1 ft. $6\frac{3}{8}$ in. dimension to the "section thro' recess" shown on the bottom right-hand drawing should read 1 ft. $10\frac{1}{4}$ in.



In the past the Aluminium Division of Tube Investments Ltd. has embraced three separate companies — Reynolds Light Alloys Ltd., Reynolds Rolling Mills Ltd., and the South Wales Aluminium Company Ltd. So as to enable us to render an even better service to our customers, we have co-ordinated and pooled the administrative, technical, research and marketing resources of the three companies who are now trading as one under the new title of TI Aluminium Ltd. The range of products handled by TI Aluminium Ltd. covers Aluminium and Aluminium Alloy Ingot, Slabs, Billets, Sheet, Strip and Extrusions. All sales and technical enquiries regarding these products will be dealt with at the company's head office at Redfern Road, Tyseley, Birmingham.

TI Aluminium

LIMITED

A TUBE INVESTMENTS COMPANY

The sales and administrative organisation for Reynolds Light Alloys Ltd., Reynolds Rolling Mills Ltd. and the South Wales Aluminium Company Ltd.

REDFERN ROAD, TYSELEY, BIRMINGHAM. Tel: Acocks Green 3333

ALUMINIUM AND ALUMINIUM ALLOY INGOT, SLABS, BILLETS, SHEET, STRIP AND EXTRUSIONS TO ALL A.I.D., B.S./S.T.A. AND B.S. SPECIFICATIONS.

No Purchase Tax chargeable on Semastic Decorative Tiles on and from November 15th, 1948.

SEMASTIC DECORATIVE TILES FOR BANKS AND BUSINESS HOUSES



BANKING and business interests have ever sought to provide an atmosphere of quiet dignity with the air of stability and permanence that symbolises their transactions.

The classic traditions of the old City Banking Houses, rich solid hardwood relieved by the high lights of varnished and endlessly polished surfaces, have set a standard the world over.

The quiet richness of Semastic Decorative Tiles, their long-wearing qualities and their capacity to reflect the light, make them entirely suitable to carry on this tradition—they can provide as good a floor for the Banker and the Merchant as they do for people in other walks of life.

Because of the ease with which they are cleaned, Semastic Decorative Tiles ensure the maintenance of that modest and well-groomed appearance, even in these days, when there are no apprentices to rise and bump the floors at six of the morning.

SEMTEX LIMITED
(A DUNLOP COMPANY)

Branches at : ABERDEEN · BELFAST · BIRMINGHAM BRISTOL · CARDIFF · EDINBURGH · GLASGOW · HULL LEEDS · LIVERPOOL · LONDON · MANCHESTER NEWCASTLE · SOUTHAMPTON · READING

Semtex Departments of Overseas Dunlop Companies operate in Sweden, Denmark, Holland, Belgium, France, South Africa, India and Australia; Shipping Services A/S Oslo, represent Semtex Limited in Norway.

Contracting work with Semastic Decorative Tiles is also undertaken by the following Approved Contractors :

J. A. Hewetson & Co., Ltd., HULL.

Hollis Bros. & Co., Ltd., LONDON, HULL and LEICESTER.

Horsley Smith & Co. (Hayes), Ltd., HAYES, Middx.

The Limmer & Trinidad Lake Asphalt Co., Ltd., LONDON, and branches throughout the U.K.

The Penmaenmawr & Trinidad Lake Asphalt Co., Ltd., LIVERPOOL.

The Western Trinidad Lake Asphalt Co., Ltd., CARDIFF.

SEMTEX LIMITED 185/187/189 FINCHLEY ROAD, LONDON, N.W.3
Telephone : Maida Vale 6070. Telegrams : Semtex, Haver, London.

48SE/D26

36.D1.—Add the following note to the reverse under the heading "Sliding and Light Type Doors." *Fire Test:* A sliding door of single thickness ⅜ in. Durasteel covering maximum wall opening of 7 ft. 0 in. × 8 ft. 0 in. successfully underwent a 2-hour official F.O.C. fire test on 23.11.48. Subject to ratification by the Fire Offices Committee this door will be classed under Grade C of B.S. 476 and will be known as the Durasteel "Fireman" Sliding type.

43.E10.—The unit is now fitted with Supataps model VT/LX ½ in. B.S.P. instead of those shown, and the cowl at top of water heater casing is no longer fitted; an aperture is provided in the face of the casing.

43.E11.—The following note should be added to the reverse: "Electric Cooker—for Unit PKW 155 (Alternative to Gas Cooker). *Type*: South Wales Switchgear 'Tricity' Cooker 471."

Sheet 42.B1 is cancelled and should be withdrawn from the Library. Sheet 26.C1 has been cancelled for revision. It will be reissued on December 30 as 26.C1. Revised 30.12.48.

For those who are responsible for filing Information Sheets as issued we re-publish below the Instructions to Secretaries. This gives all the necessary information to enable them to file, check and generally to maintain the Library in good order. We also republish the Classification list of 46 subjects, together with a contents check list showing the correct sequence of the complete Library at December 30, 1948.

INSTRUCTIONS TO SECRETARIES

Every Information Sheet, when it reaches you in the ARCHITECTS' JOURNAL, has a classification symbol printed on the top right-hand corner of one side and the top left-hand corner of the other. All Sheets are perforated so that they may easily be torn from the JOURNAL, and all you have to do in order to keep the Library properly organized is to file every Sheet as it comes into the office in accordance with its symbol.

The symbols (*e.g.*, 32.C17) when understood are quite simple, being based on the principle of splitting the Library up into 46 subjects, numbered 1 to 46. The subject number appears first in the classification symbol, *e.g.*, 32 means *subject* 32 (water heating): Then each of these subjects is in turn split up into a number of sections indicated by the letter in the middle of the classification symbol, *e.g.*, C. (following subject 32) means *section C* (units gas) in that subject. The last number of the symbol is used to indicate the Sheet number. Thus, the 17 means the 17*th Sheet* within the appropriate section (C) and within subject 32. When filing, the Sheet will, of course, be put in subject 32, section C, and after Sheet No. 16.

From time to time you will receive a check list which will show you the correct order and contents of the Library at any particular date. This list will consist of groups of symbols correctly arranged, and will enable any mistakes to be rectified.

Sometimes Sheets will become out of date, or otherwise inaccurate, and will be cancelled; such cancellations will be notified in the JOURNAL. It is your responsibility to remove such Sheets from the Library and replace them by the revised copies when issued. Cancellation of Sheets will also be clearly noted on all contents lists. If you find any difficulty in keeping your Library in order, the Editor will always be pleased to assist you. These instructions may be removed and kept for reference with the list of 46 subjects below.

THE 46 SUBJECTS

GENERAL:

1. General practice.
2. Building science.
3. Professional procedure.
4. Planning and design.

CONSTRUCTION (BY MATERIALS):

5. Stone (natural and artificial).
6. Concrete.
7. Cements, mortars and plasters.
8. Glass.
9. Iron and steel.
10. Non-ferrous metals and alloys.
11. Timber (natural, laminated and ply).
12. Materials, miscellaneous.

CONSTRUCTION (BY PRODUCTS):

13. Bricks (9 in. by 4½ in. and the like).
14. Building blocks and slabs (thick materials and generally of limited area).
15. Sheet materials (thin materials and generally of large area).
16. Roof sheets, roof sheet materials and special roofings.
17. Roof tiles, slates, shingles, etc.
18. Wall and floor tiles, faience and terra cotta.
19. Floor and wall finishes (excluding tiles, papers, etc.).
20. Floors and roofs, and floor and roof structural elements.
21. Partitions and walls, and partition and walls structural elements.
22. Ceilings.
23. Doors, frames, fanlights, etc.
24. Windows, frames, rooflights, etc.
25. Complete structures.
26. Products, miscellaneous.

SERVICES AND EQUIPMENT:

27. Sound control and acoustics.
28. Thermal insulation and isolation, and refrigeration.
29. Space heating.
30. Ventilation, and combined heating and ventilation.
31. Cooking.
32. Water heating.
33. Water supply and sanitation.
34. Illumination.
35. Lifts, escalators, transport generally.
36. Fire prevention and protection.
37. Services and equipment, miscellaneous.

APPLIED FINISHES AND TREATMENTS:

38. Paints, stains, varnishes and polishes.
39. Fire-resisting treatments.
40. Anti-rot, anti-corrode, anti-water penetration, and anti-dust treatments.
41. Applied finishes and treatments, miscellaneous.

FURNITURE AND FITTINGS:

42. Furniture general (fixed and free-standing).
43. Specialized furniture and fittings.
44. Fittings.
45. Furniture and fittings, miscellaneous.

MISCELLANEOUS:

46.

CORRECT SEQUENCE OF COMPLETE LIBRARY AT DECEMBER 30, 1948

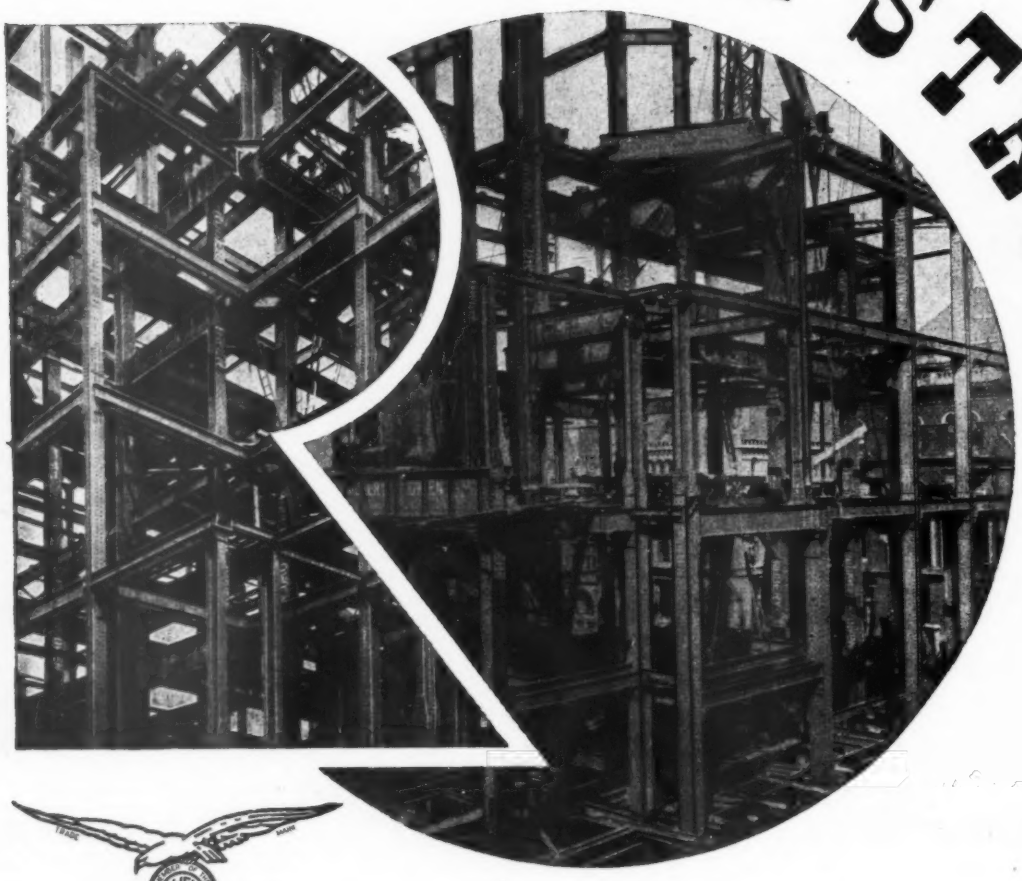
1.B2	1.B3	1.B4	1.B7	1.B8	1.B11
1.B12	1.B13	1.B15	1.B19	1.B20	1.B23
1.B26	1.B27	1.B28	1.B29	1.B30	1.B31
1.B48	2.A1	4.N1	8.E1	8.F1	10.B1
10.B2	10.E1	10.G1	10.G2	10.G3	10.G4
10.G5	10.G10	10.J1	10.J2	10.J3	13.C10
13.C11	13.C12*	14.L1*	14.L2	14.L3	14.M1*
14.N1	14.N2	15.B1	15.C1	15.R1	15.Z1
15.Z2	16.J1	17.B1	17.B2	18.G1	20.C1
21.G1	22.D1*	22.E1	22.E2	22.F1	23.B1*
23.B2	23.C1	23.C2	23.C3	24.C2	24.C3
24.J1	24.M1	24.M2	24.N1	24.N2	24.S1
26.A1	26.C1†	26.E1	26.F1	26.F2	26.F3
26.F4	26.J3	26.J4	26.J5*	27.B9*	27.C1*
28.H1	29.C2	29.D1*	29.G1	29.J1	29.J3
31.B1	31.B2	31.C1	32.C1	32.C2	32.C20
32.C21	32.C22	32.C23	32.C25	32.C26	32.C27
32.D10	33.C1	33.C2	33.C3	33.C4	33.C5
33.C10	33.P1	33.Q1	33.U1	35.B1	36.B1
36.D1*	37.C1	37.C10	37.D1	37.D2	37.H1
37.H2	43.E1	43.E2	43.E10*	43.E11*	43.Z1
43.Z2	44.D1	44.D2	46.Z		

42.B1 *has been cancelled and should be removed from collections.*

* *These Sheets revised.*

† 26.C1 *has been cancelled and should be removed from collections. It is revised and reissued as* 26.C1. *Revised* 30.12.48.

A NAME IN STRUCTURAL



☆STEELWORK

Our name is based upon the security and sound foundation of our Steel Constructional Work backed by years of experience and a reputation famous for accuracy and reliability it ranks second to none in the field of Constructional Engineering.

The vast fund of data and the services of our expert technical staffs are always at your disposal.

RUBERY OWEN & Co. Ltd

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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

THE INDUSTRY

THE BUILDING CENTRE'S ELECTRICAL SECTION

The electrical section of the Building Centre has been entirely redesigned (by Mr. Hulme Chadwick) and is a very considerable improvement over the previous effort, which seemed to have remained unchanged for far too long. The illustration on this page, which shows the cooker section, gives an idea of the advance which has been made since 1939. In the old days the general level of design would have been much lower, all the cookers would have been slightly different heights, and probably not more than one would have had thermostatic control for the oven. Nowadays almost all the models are to BSS height, all have thermostats, and several also have a graduated control for the grill-er and boiling rings instead of the usual three-heat switch, which was adequate but never really satisfactory, as the control provided was inevitably somewhat coarse.

Perhaps the most interesting part of the display are the water heaters, many of which are shown in part section so that one can get an idea of the amount of insulation provided as well as the relative positions of the heating elements and thermostats. The two in one heater, a 20-gallon size to go under the draining board is also shown in section; these heaters have two elements, a 500 watt unit near the top which provides about 7 gallons of hot water for general kitchen purposes, and a further 1,500 watts separately controlled element at the bottom for use when the full 20 gallons are required for baths. Hot water circulators employing immersion heaters are also shown, with diagrams to demonstrate the proper methods of installation, a very necessary feature, as, although electricity can provide a reasonably economical hot water service, careless fitting can lead to extravagant losses, especially where a heater is applied to an existing solid fuel system for summer use. An immersion heater in the hot water cylinder will certainly provide hot water, but it is all too easy to install it in such a way that there is a reverse flow through the unlighted boiler, or through some secondary circuit, and this will give rise to extremely costly losses.

The rest of the equipment on show is reasonably familiar, and includes light fittings, refrigerators, washing machines, clocks, and other small items such as kettles, irons and coffee percolators which are now being produced in considerable quantities.

The heating of the whole exhibit is by low temperature tubes in conjunction with extract fans, grilles in the display portions of the exhibit allowing the various units to be seen by the visitor.

At the opening ceremony, a fortnight ago, it was announced that the whole section is not to remain static, but will be changed and added to as new equipment is produced. (*The Electrical Development Association, at 9, Conduit Street, London, W.1.*)

VENTILATING FLUORESCENT FITTINGS

The various chokes and capacitors used in the control gear of fluorescent lamps are designed to operate within certain temperature limits, but with the newer two-foot lamps they are inevitably placed closer to the lamp ends, which are the hottest part, while the desire to produce compact units means that lamps and controls are often packed together as closely as possible.

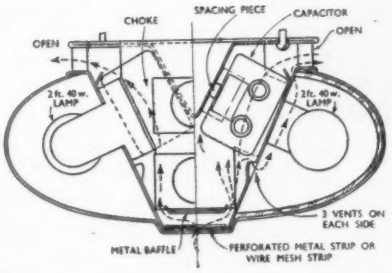
Furthermore, the heating effect on a choke used with two 40 watt lamps is greater than when a single 80 watt lamp is being operated. The problem of providing adequate ventilation in these circumstances has been the subject of special studies by the General Electric Co. Ltd., as a result of which fittings with a ventilated gear compartment have been introduced. The illustration shows a section of the ventilated gear compartment in a fitting for two 2 ft. 40 watt lamps. Air enters by the grill running the length of the fitting at the bottom; inside the fitting the air flow is divided by a baffle so as to pass over both sides of the V section channel to which the gear is attached. Two longitudinal openings at the top edges of the fitting allow the warm air to escape, and are placed so that they are unobstructed whether the fitting is mounted directly on the ceiling or suspended. A heat transference shim between the choke and the channel helps its cooling by radiation, and the capacitor is mounted on spacing blocks to avoid transference of heat to this component.

The arrangements described are the subject of a patent application. By overcoming some of the limitations which previously had to be observed in the placing of gear, they give the designer increased freedom in producing compact yet efficient fittings. (*The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.*)

BUILDING DATA

In the compilation of these notes, a good deal of the essential information naturally comes from the leaflets and handbooks produced by the manufacturers concerned, and it must be admitted that the relevant data is not always too easy to find. Hence, of course, the need for Information Sheets to present the essential data, and *all* of it, in a form readily comprehensible to the architect.

In America, however, despite the admirable Sweets catalogue, architects and manufacturers still appear not to be satisfied with many of the technical handbooks, catalogues and leaflets, and the American Institute of Architects, jointly with the Producers' Council, have sponsored a competition "to improve the quality of presentation of information about building materials." Each Chapter of the AIA has selected publications thought suitable to be entered for the competition, which has been running throughout the year: the results to be announced next year. The assessors will be architects, manufacturers and advertising men, and it is hoped that the competition will become an annual event. Conventional display advertising will not be considered, and the judges will demand "complete and accurate presentations of building products and interesting methods of application." In these days when all architects are becoming submerged in more and more paper work, the competition should provide some useful results, and it will be interesting to see how the American prizewinners compare with the best British productions.



Section through ventilated gear compartment for fluorescent fittings: the dotted arrows show the flow of cooling air.

VENTILATING EQUIPMENT

Messrs. Matthews & Yates, who have been making fans and ventilating equipment for nearly 60 years, have just issued four informative handbooks dealing with Cyclone unit heaters for steam or hot water, air filters and fans in all sizes up to a maximum output of nearly 180,000 cubic feet a minute. The firm makes three basic types of centrifugal fan: the paddle blade, the slow speed multivane type, and the high speed curved blade. The handbook gives full performance details and dimensions, and contains much useful data, including notes on the choice of the most appropriate type of fan.

The air filters made by the firm are the continuously rotating viscous type with the filter units dipping into an oil bath, so that the trapped dust is washed off and the filter cell receives a fresh layer of viscous oil for entrapping the dust particles. Even with a heavily laden atmosphere only 2 or 3 per cent. of the dust particles remain in the filtered air.

The firm also makes filter units without the self cleaning feature, designed to give a maximum filtration area in a minimum overall space. (*Matthew & Yates Ltd., Swinton, Manchester.*)



The cooker display at the new electrical section of the Building Centre, designed by Hulme Chadwick and sponsored by the Electrical Development Association.



INFORMATION SHEETS. APPLICATION FORM FOR RE-PRINTS.

New subscribers who wish to complete their sets of Information Sheets by the addition of those Sheets published before they began to subscribe should fill in the form below, stating the date their subscriptions commenced. Readers wishing to order copies of individual Sheets may identify them either by the classification number, or the sequence number which is printed on the face of each Sheet immediately below the main title. The price of Information Sheets is 3d. each, post free.

Please send me Information Sheets up to and including the issue for:

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Announcements

Mr. Alfred H. Durnford, L.R.I.B.A., and Mr. Harold W. Moore, F.R.I.B.A., of 8, Clarges Street, W.1, have dissolved Partnership by mutual consent as from December 31, 1948. Mr. Alfred H. Durnford, L.R.I.B.A., has entered into Partnership with Mr. Stanley Parker, L.R.I.B.A., A.I.A.A., and, as from January 1, 1949, they will practise as Durnford, Parker & Partners, Chartered Architects, at 8, Clarges Street, Piccadilly, W.1. (Tel.: Grosvenor 2781-2.) Mr. Harold W. Moore, F.R.I.B.A., will practise as a Chartered Architect at Sheraton House, 14-19, Great Chapel Street, Oxford Street, W.1. (Phone: Gerrard 6009.)

Mr. G. A. Jellicoe, F.R.I.B.A., M.T.P.I., having been appointed architectural consultant to the Northern Rhodesian Government, has established an office in Fischer's Buildings, Lusaka, and would be glad if catalogues could be sent to that address. The resident architect is Mr. R. McKinlay, A.R.I.B.A.

Mr. Arthur C. Braven, A.R.I.B.A., chartered architect and planning consultant, is conducting his practice from 135, Old Brompton Road, South Kensington, S.W.5.

Following the power taken at a recently held Extra-ordinary General Meeting, the directors of Thos. W. Ward Limited announce that the undermentioned four local directors have now been made directors. Philip T. Ward, George Stuart Wood, J. S. Bradshaw and E. G. Mort.

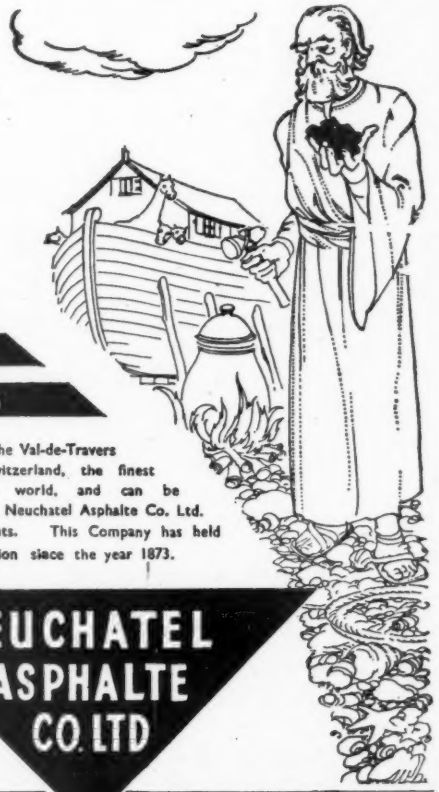
To give improved service and quicker delivery from stock in the Kent and East Sussex Areas, Messrs. Johnson & Phillips, Ltd., electrical engineers and cable makers, have opened a new depot at Kensington Street, Tunbridge Wells. Telephone: Tunbridge Wells 90.

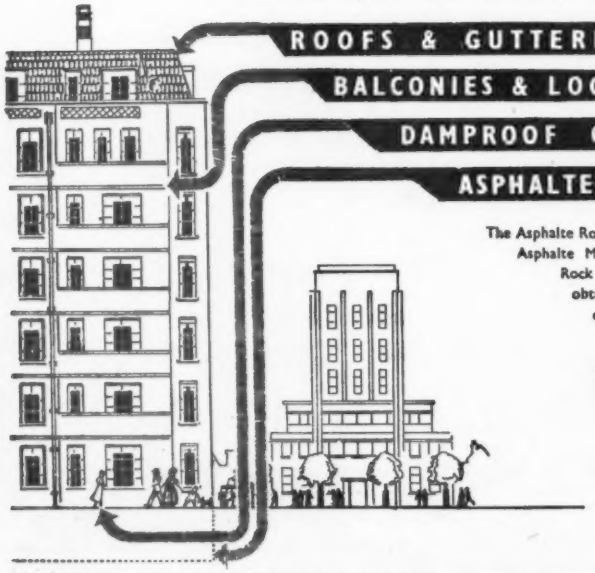
Buildings Illustrated

No. 1, Upper Grosvenor Street, W.1, Rayon Industry Design Centre. (Pages 575-578.) Architects, Maxwell Fry and Jane Drew, F./F.R.I.B.A. General Contractor, Frank Batty & Smith. Sub-contractors: Patent flooring, "Endunite," Franchi-Wood Mosaic Co., Armstrong Cork Co., rubber by Bennetts; central heating, Rosser & Russell; gas fixtures, Gas Light & Coke Co.; electric wiring, Troughton & Young; sanitary fittings, J. Boldings & Son; door furniture, Yannedis and A. J. Binns; casements, Williams & Williams; sunblinds, Avery & Co.; decorative plaster, Badcock & Son; marble, Finch & Co.; textiles, Rayon; wallpapers, Sandersons; chairs and smaller tables, Dunns of Bromley; desks, Heals; shop fittings, Hams Sheldon.

Sanatoria at Lisdarn, Cavan, Eire (pages 579-581). Architect: Donald A. Tyndall, M.R.I.A.I., L.R.I.B.A. Consulting Engineer: J. J. Winters, B.E., M.I.C.E.I. General Contractor: The late T. McManus. Sub-contractors: Asphalt, The South of Ireland Asphalt Co.; steel reinforcement, MacNaughton Twisteel Reinforcement Ltd.; rustic facing bricks, Slane Brick Co.; stone, Irish Limestone; Terazzo and tiles, O'Hara & Co.; slates, Killaloe; glass, Pilkington Bros. Ltd.; woodblock flooring, A. M. Macdougall & Sons; central heating and hot water installation, John Horgan & Sons; electric wiring, Bective Electrical Co.; sanitary fittings, David King & Co.; steel casements, Smith & Pearson.

NOAH caulked the Ark with Natural Asphalte and as a waterproofing material it is still supreme to-day. The material is constantly under test by our Staff of Chemists and Technologists and this natural waterproofing material is therefore offered with a guarantee, backed by this old-established company. It has been successfully used for:





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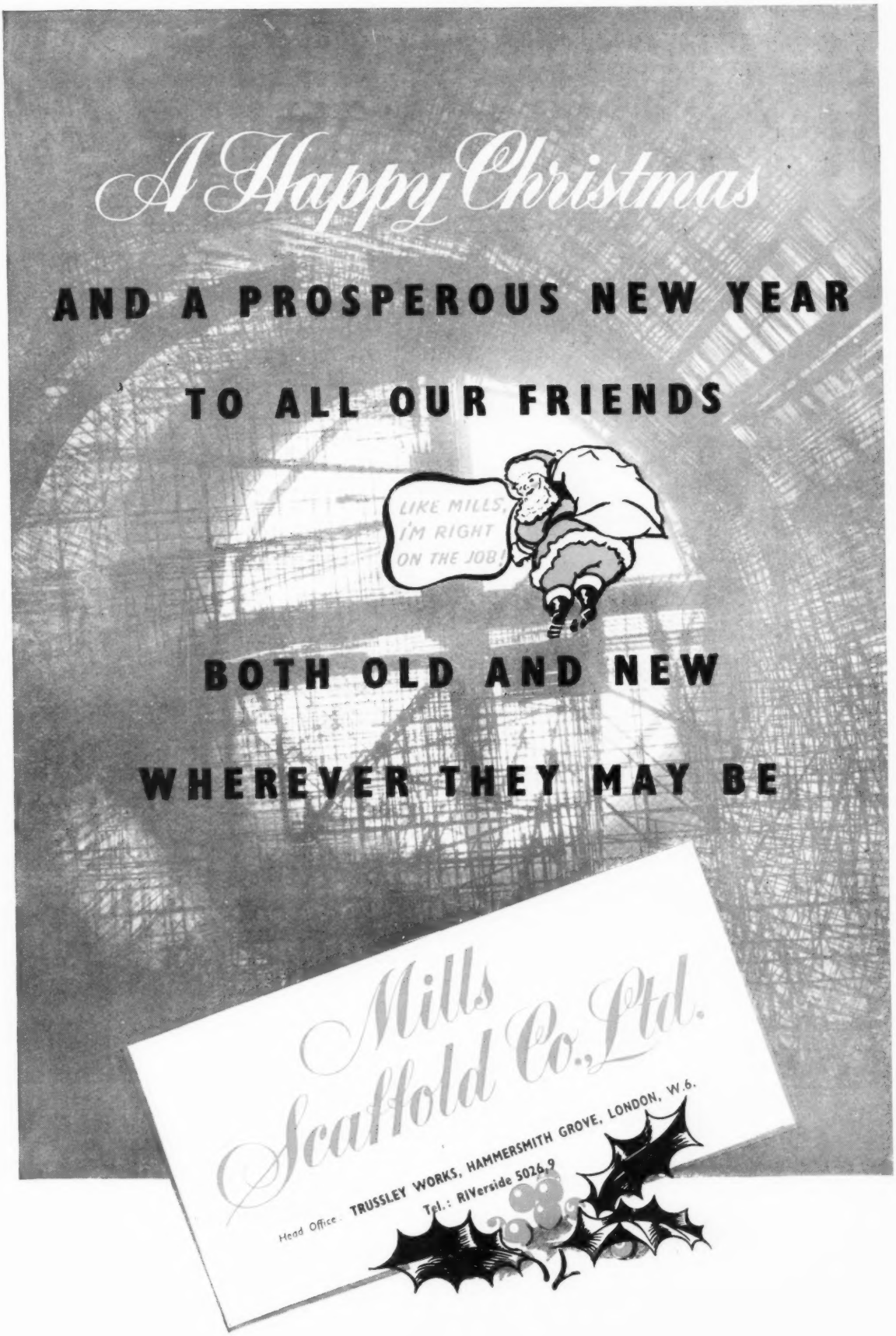
The Asphalte Rock is obtained from the Val-de-Travers Asphalte Mines, Neuchatel, Switzerland, the finest Rock Asphalte in the world, and can be obtained only from The Neuchatel Asphalte Co. Ltd. or its appointed agents. This Company has held the sole concession since the year 1873.

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A Happy Christmas
AND A PROSPEROUS NEW YEAR
TO ALL OUR FRIENDS
LIKE MILLS, I'M RIGHT ON THE JOB!
BOTH OLD AND NEW
WHEREVER THEY MAY BE
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Head Office TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6.
Tel.: RIVerside 5026,9



12,000 sacks of coal saved

. . . by insulating factory roof

As much as 600 tons of fuel can be saved in a year by insulating with Celotex cane fibre insulation the roof of a steel framed factory (100,000 sq. ft. of corrugated asbestos). The installation of Celotex, simply and easily effected by means of the Celotex Metal Fixing Systems, substantially reduces transmission heat losses in buildings of every description. And because it cuts fuel bills and reduces the capital charge of heating plant, Celotex soon pays for itself. The table below is based on Fuel Efficiency Bulletin No. 12 and gives general information on the fuel savings obtained by insulating steel framed roofs with Celotex. Our technical department will gladly calculate specific data for your individual needs.

CONSTRUCTION		Uninsulated		Under-Purlin insulation		Over-Purlin insulation			
Corrugated Asbestos Cement		1/4"	–	1/4"	–	1/4"	1/4"	–	–
Corrugated Iron		–	22G	–	22G	–	–	22G	22G
Celotex Insulating Board		–	–	–	–	1/2"	1"	1/2"	1"
Air Space/Purlins		–	–	4"	4"	–	–	–	–
Celotex Insulating Board		–	–	1/2"	1/2"	–	–	–	–
Thermal Transmittance 'U'		1.40	1.50	0.31	0.32	0.35	0.23	0.36	0.24
To make good 1000 sq. ft.	Fuel Consumption tons p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
	Cost of Heating Plant. Cost £'s	88	94	19	20	22	14	22.5	15
Saving in Plant and Fuel due to Celotex Insulation %				78	79	75	84	76	84

invest in CELOTEX insulation

CELOTEX LIMITED, NORTH CIRCULAR ROAD, STONEBRIDGE PARK, LONDON N.W.10

A CONSTRUCTIVE CONTRIBUTION

TO THE BUILDING TRADE

BIRMETALS
(REGISTERED TRADE MARK)



"BIRMETALS" Light Alloy Scaffold Poles with Burton Patent fittings, have the following advantages:—

No maintenance required.

Utmost durability.

Lightness (one-third the weight of Steel).

Reduced erection and transport costs.

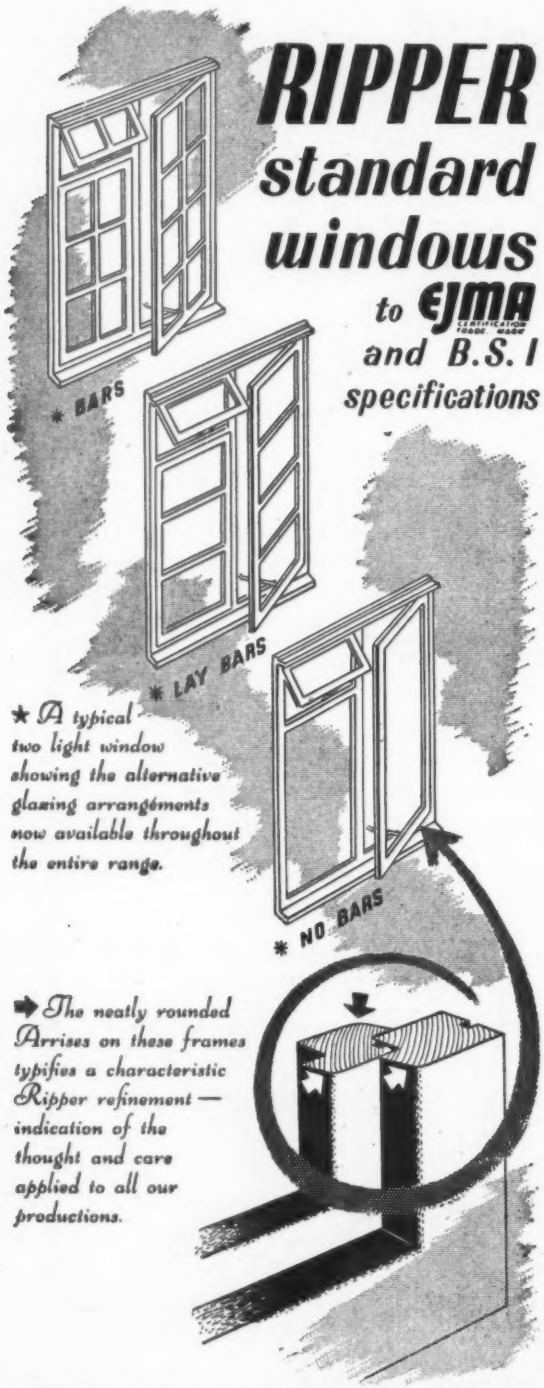
Write us for full particulars.

Photograph by courtesy of the London Midland & Steel Scaffolding Company.

BIRMETALS
(REGISTERED TRADE MARK)

BIRMETALS LIMITED
BIRMABRIGHT LIMITED
} WOODGATE WORKS · QUINTON · BIRMINGHAM 32

RIPPER standard windows to EJMA and B.S.I specifications



★ A typical two light window showing the alternative glazing arrangements now available throughout the entire range.

➡ The neatly rounded Arrises on these frames typifies a characteristic Ripper refinement — indication of the thought and care applied to all our productions.

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Castle Hedingham Essex
TELEPHONE HEDINGHAM 191 (4 lines)
LONDON — 9 Southampton Place (Suite 16) W.C.1
TELEPHONE CHAncery 8306/7

METROVICK *Fluorescent* LAMPS

From Oct. 1st.

3FT. *in* WARM WHITE *and* NATURAL
30w. 1" diameter Bi-pin Cap 13/-

1½FT. *in* WARM WHITE *and* NATURAL
15w. 1" diameter Bi-pin Cap 11/6

and also available in
NATURAL *Colour:*

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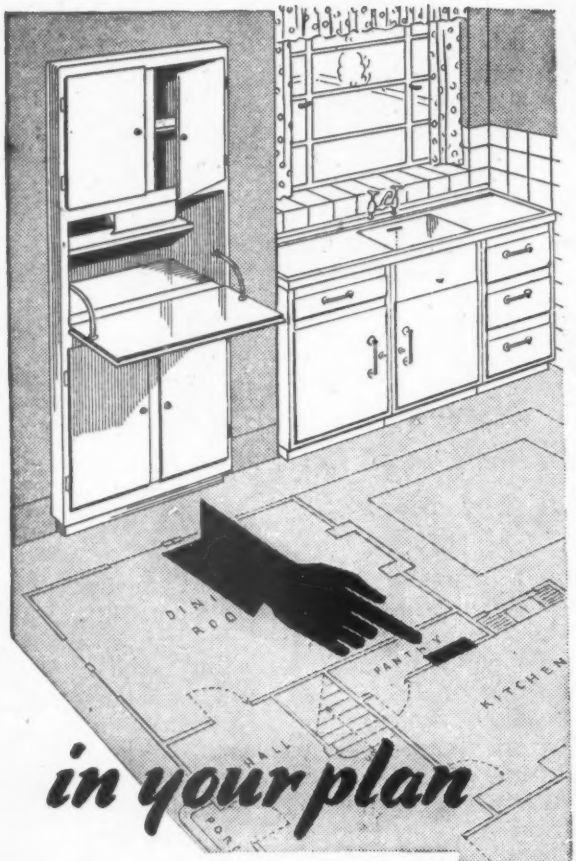
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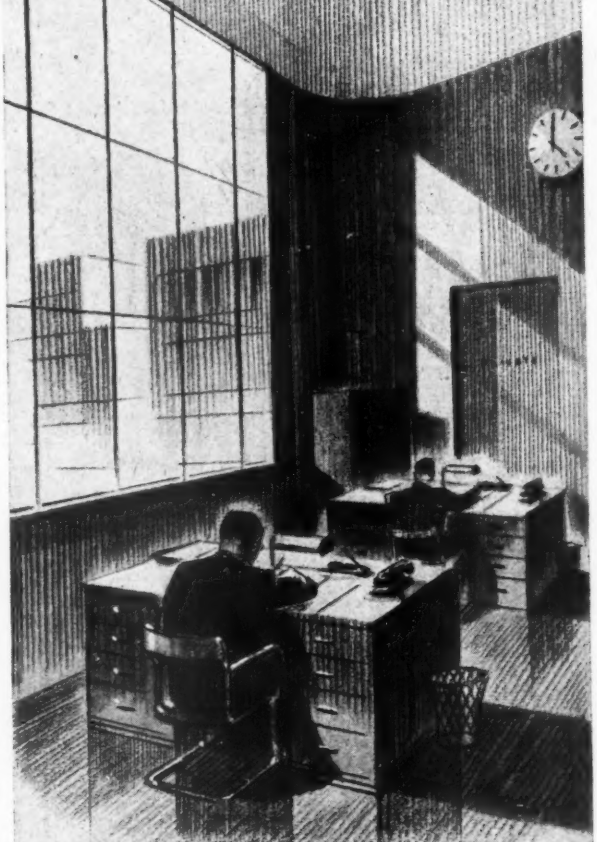
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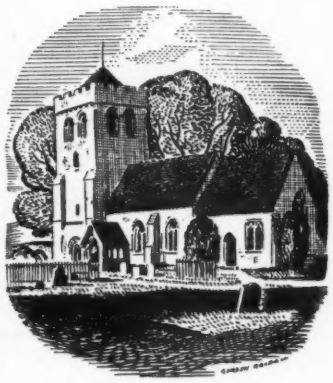
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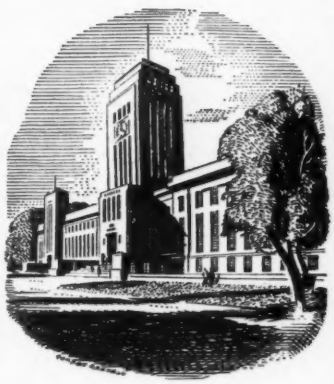


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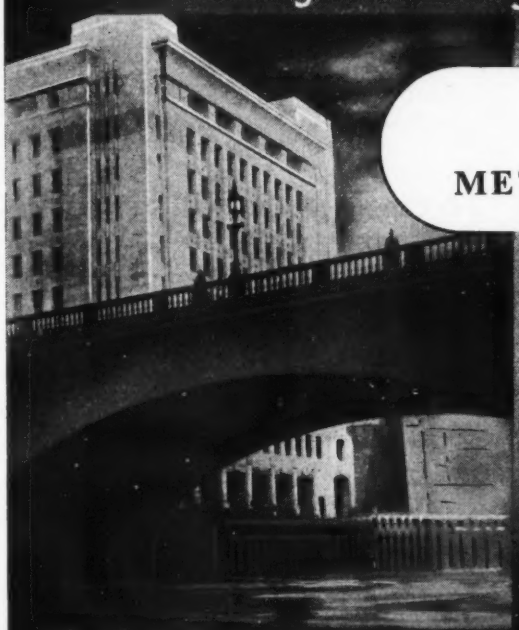
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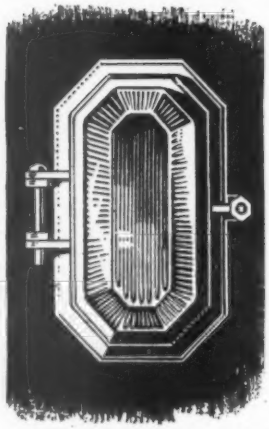
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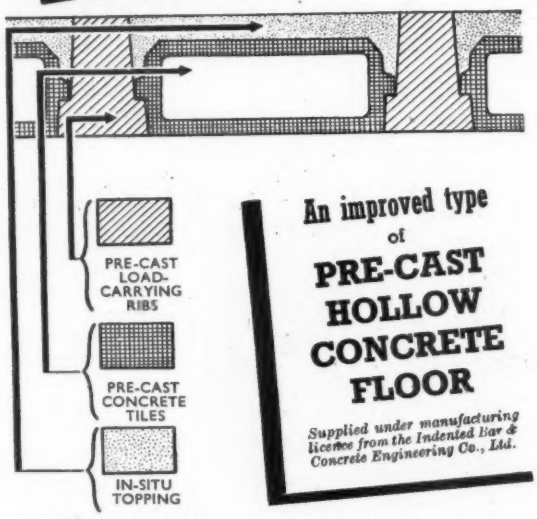
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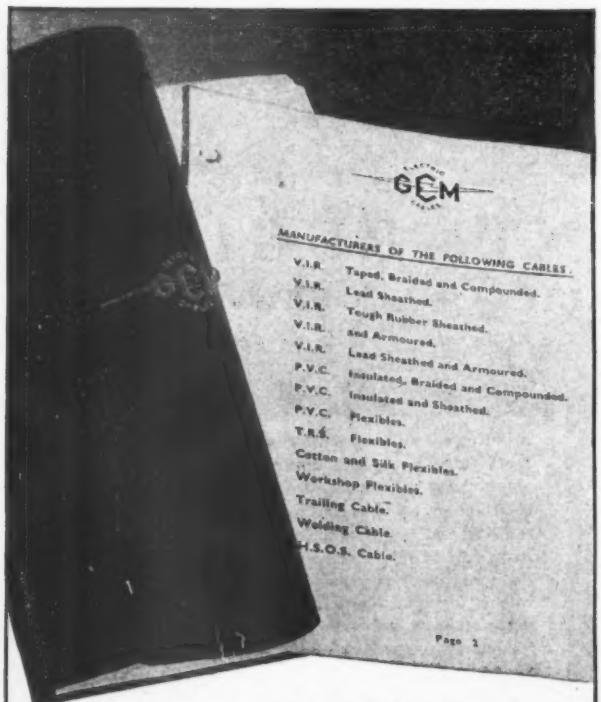


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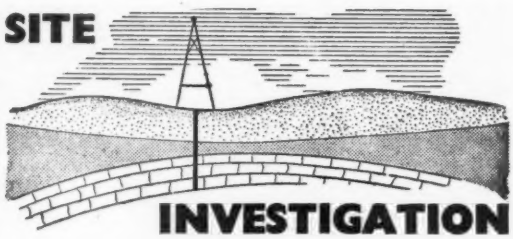
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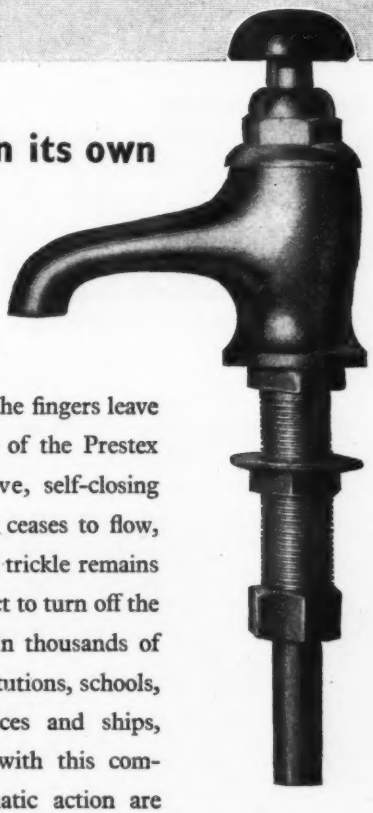
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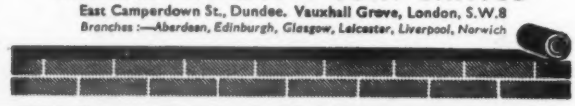
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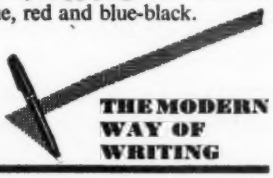


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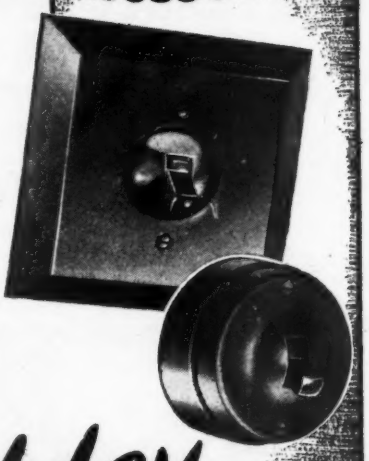


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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHITELEAFE. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269) 1046

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ARCHITECTURAL SECTION.

Applications are invited for the appointment of:—

TEMPORARY ARCHITECTURAL ASSISTANT. Salary Grade II, £420 p.a., A.P.T. Division of the National Scale of Salaries.

Applicants for the appointment should have passed the Intermediate examination R.I.B.A., or be of equivalent standard, and those who have had previous experience with Local Authorities' Housing Schemes would be preferred.

The appointment is subject to one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by copies of not more than two recent testimonials, must be delivered to Mr. J. S. Orchard, A.M.I.C.E., Borough Engineer, Town Hall, Colchester, as soon as possible, but not later than Monday, 3rd January, 1949.

Canvassing will disqualify, and applicants must state whether they are related to any member or senior officer of the Council.

N. CATCHPOLE,
Town Clerk.

Town Hall, Colchester.
7th December, 1948. 1131

AYCLIFFE DEVELOPMENT CORPORATION.
APPOINTMENT OF ARCHITECT AND ARCHITECTURAL STAFF.

Applications are invited for the following appointments:—

(*a*) ARCHITECT. At a salary of £1,000 per annum, rising by annual increments of £50 to a maximum of £1,200.

(*b*) ARCHITECTURAL ASSISTANTS, on the following Grades:—

Grade VII (£635 per annum, annual increments of £25 to a maximum of £710 per annum).

Grade VI (£595 per annum, two annual increments of £20 and one of £25 to a maximum of £660).

Grade V (£520 per annum, two annual increments of £15 and one of £20 to a maximum of £570).

Applicants for the positions of Architectural Assistants must state the Grade for which they are applying.

Applicants for the Architect's position and for those of the Architectural Assistants on Grade VII and VI must be fully qualified.

All the appointments are subject to the Scheme of Conditions of Service as laid down by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and will also be subject to the Local Government Superannuation Act, 1937.

In the case of the Architect, the appointment will be terminable by three months' notice on either side, and the Architectural Staff will be subject to one month's notice on either side.

Applications, stating age, qualifications and experience, together with names and addresses of two referees, must be forwarded to reach the undersigned by the 15th January, 1949. Testimonials may be sent but are not essential.

The Corporation will endeavour to provide housing accommodation from any house under their control for persons appointed to their staff.

A. W. THOMAS,
General Manager.

Simpasture, Newton Aycliffe, near Darlington, Co. Durham.
November, 1948. 1116

ANGLESEY COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments in the County Planning Officer's Department, in accordance with the Scheme of Conditions of Service of the National Joint Council for Local Authorities:—

(*a*) ONE PLANNING ASSISTANT Grade A.P.T. IV (£480×£15—£525).

(*b*) ONE JUNIOR PLANNING ASSISTANT. Grade A.P.T., I (£390×£15—£435).

Applicants for (*a*) should have considerable experience in the preparation of basic surveys, statistics, and the control of development. Studentship of the Town Planning Institute will be an advantage.

Applicants for (*b*) should have had at least two years' experience in a planning office, and should be neat and expeditious draughtsmen and colourists.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and applicants who are called for interview will be required to undergo the Council's medical examination.

Applications, stating appointment applied for, age, qualifications, experience, present and previous appointments, and accompanied by copies of two recent testimonials, should be delivered to the undersigned by 31st December, 1948.

WILLIAM JONES,
Clerk of the County Council.

Shire Hall, Llangefni.
6th December, 1948. 1113

ANGLESEY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments in the County Architect's Department:—

(*a*) ONE SENIOR ASSISTANT ARCHITECT. Salary Grade VII, commencing at £635 per annum and rising to £710 per annum. Applicants should be Registered Architects and Members of the Royal Institute of British Architects, with considerable experience in the design of educational buildings, supervision of technical staff, etc.

(*b*) ONE ARCHITECTURAL ASSISTANT. Salary Grade III, commencing at £450 per annum and rising to £495 per annum. Applicants should have good experience of work undertaken by a Local Authority, and preference will be given to applicants who have passed the Intermediate examination of the Royal Institute of British Architects.

The appointments will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937; candidates called for interview will be required to undergo a medical examination by the County Medical Officer. The appointments are also subject to one month's notice on either side.

Applications in plain envelopes, appropriately endorsed, stating age, training, qualifications, experience, and past and present appointments, and giving the names of two referees, and accompanied by a copy of one recent testimonial, should be delivered to the undersigned not later than Friday, 31st December, 1948.

WILLIAM JONES,
Clerk of the County Council.

Shire Hall, Llangefni, Anglesey.
8th December, 1948. 1130

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the under-mentioned permanent appointments in the following Divisional Offices of the County Planning Department:—

ACCRINGTON:

(*a*) ONE PLANNING ASSISTANT, in A.P.T., Grade I to IV inclusive (salary £390-£480 per annum).

(*b*) TWO DRAUGHTSMEN or DRAUGHTSWOMEN, in Miscellaneous, Grade I (salary £315×£15—£360 per annum).

BURY:

(*c*) ONE PLANNING ASSISTANT, in A.P.T., Grades I to IV inclusive.

(*d*) ONE DRAUGHTSMAN or DRAUGHTSWOMAN, in Miscellaneous, Grade I.

Candidates need not have had previous planning experience, but in that event applicants for appointment as Planning Assistant should have been trained in the office of an Engineer, Architect or Surveyor.

Possession of one of the following or equivalent qualifications will be an advantage: a University Degree in Civil Engineering or Architecture, A.M.I.C.E., A.R.I.B.A., A.M.I.Mun.E., or A.R.I.C.S. Preference will be given to applicants who are Associate Members of the Town Planning Institute.

The experience and qualifications of the successful applicants for appointments (*a*) and (*c*) will determine the Grades in which they will be appointed.

Applicants should state whether or not they wish to be considered for the appropriate vacancy in each Divisional Office.

The appointments will be subject to the National Joint Council's Scheme of Conditions of Service and the Local Government Superannuation Act, 1937.

Testimonials are not required, but applicants should give the names and addresses of two persons to whom reference may be made.

Applications, stating age, qualifications, experience and present salary, should be received by the undersigned not later than Tuesday, 4th January, 1949.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston.
14th December, 1948. 1167

EAST SUSSEX COUNTY COUNCIL.

Applications are invited for appointment to the post of TECHNICAL PLANNING ASSISTANT, in the County Planning Office. The salary is on Grade A.P.T., IV, of the National Scales, namely £480, rising by annual increments of £15 to a maximum of £525. Applicants must be capable draughtsmen, must have had experience in a planning department, and must have passed an Intermediate or Final examination of a suitable professional body. The successful candidate will be required to work at the headquarters office, Lewes, to assist in the general work of the office and to be responsible for the maintenance of record maps of applications for planning permission, etc.

The appointment is terminable by one month's notice on either side; it is superannuable, and a candidate to be successful must pass a medical examination to the satisfaction of the County Medical Officer. Canvassing, either directly or indirectly, will disqualify, and a candidate who is related to a member of, or a Senior Officer under, the Council must disclose the fact in his application. Applications, stating age and giving particulars of experience, must be sent to me at the County Hall, Lewes, by 8th January, 1949, with names of two persons to whom reference may be made.

H. S. MARTIN,
Clerk of the County Council.

County Hall, Lewes.
9th December, 1948. 1145

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECT, Grade VI, at a commencing salary of £595, rising by annual increments of £20/£25 to a maximum of £660, plus London allowance of £30 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, and should have had a good training and an adequate experience in the design and construction of modern buildings.

It is desirable that applications should be accompanied by a small sample of the applicant's work.

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, not later than 1st January, 1949.

Canvassing, directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful candidate will be expected to make his own arrangements in this direction.

DUDLEY AUKLAND,
Clerk of the Council.

County Hall, Kingston-on-Thames. 1136

Amended Advertisement.

NORTHAMPTONSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in A.P.T., Grade III to Grade V (salary scales £450-£570), the initial salaries to be determined according to experience.

(*a*) ASSISTANT ARCHITECTS (TWO).

Candidates should be preparing for Associate Membership of the R.I.B.A., and have good general experience in the design and construction of public buildings, including schools. Training at one of the recognized schools of architecture will be an asset.

(*b*) ASSISTANT QUANTITY SURVEYOR.

Candidates must be capable of undertaking all stages of work in the preparation of bills of quantities, specifications and preliminary estimates. Preference will be given to members or students of the R.I.C.S.

The appointments will be determinable by one month's notice on either side and will be subject to the provisions of the Local Government Superannuation Acts.

Forms of application may be obtained from the County Architect, County Hall, Northampton, to whom applications, accompanied by a copy of one recent testimonial, must be delivered not later than the 15th January, 1949.

J. ALAN TURNER,
Clerk of the County Council.

County Hall, Northampton.
9th December, 1948. 1104

SOUTH-WESTERN REGIONAL HOSPITAL BOARD.

Applications are invited for the post of PRINCIPAL ASSISTANT ARCHITECT to the Board.

Candidates must be Members of the Royal Institute of British Architects and have had considerable experience in hospital design.

Salary £800 per annum, rising by annual increments of £25 to £950 per annum, the commencing salary to be fixed according to the experience of the successful applicant.

The appointment will be subject to the provisions of the National Health Service (Superannuation) Regulations, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and giving the names and addresses of three referees, should reach the Secretary of the Board at No. 6, Elton Road, Tyndall's Park, Bristol, not later than the 30th December, 1948. 1100

CITY OF COVENTRY.

Applications are invited for the following whole-time appointments on the permanent staff of the City Architectural Department :—

(*a*) ONE ASSISTANT ARCHITECT, acting as Section Deputy. Salary on Grade A.P.T., Va, commencing at £550 per annum and rising to £610 per annum.

(*b*) ONE ASSISTANT ARCHITECT. Salary Grade A.P.T., V, commencing at £520 per annum and rising to £570 per annum.

Candidates for the above appointments should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

In certain cases it is expected that housing accommodation will be available.

(*c*) ONE ASSISTANT ARCHITECT. Salary Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Thursday, 6th January, 1949.

Canvassing, directly or indirectly, will be a disqualification.

D. E. H. GIBSON,
City Architect.

1a, Warwick Row, Coventry.
16th December, 1948. 1146

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following permanent appointments in the County Planning Department :—

Headquarters Office, Preston : One vacancy in A.P.T., Grade VI (salary £595-£660 per annum).

Manchester Divisional Office : One vacancy in A.P.T., Grade VI (salary £595-£660 per annum).

Applicants should possess one or more of the following or equivalent qualifications : A University Degree in Civil Engineering or Architecture, A.M.T.P.I., A.M.I.C.E., A.R.I.B.A., A.M.I.Mun.E., A.R.I.C.S.

Preference will be given to candidates who have a good general experience in the preparation of Town and Country Planning Schemes and the administration of relevant Acts and Orders, and applicants should state if they wish to be considered for both vacancies.

The appointments will be subject to the National Joint Council's Scheme of Conditions of Service and to the Local Government Superannuation Act, 1937. Testimonials are not required, but applicants should give the names of two persons to whom reference may be made.

Applications, stating age, qualifications, experience and present salary, should be received by the undersigned not later than Tuesday, 4th January, 1949.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston.
14th December, 1948. 1168

COUNTY BOROUGH OF SOUTHAMPTON.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following :—

ARCHITECTS.

(*a*) SENIOR ASSISTANT ARCHITECTS. Grade VI (£595-£660). Permanent.

(*b*) ASSISTANT ARCHITECTS. Grade V (£520-£570). Permanent.

(*c*) ARCHITECTURAL ASSISTANT. Grade II (£420-£465). Permanent.

QUANTITY SURVEYORS.

(*d*) QUANTITY SURVEYORS. Grade VI (£595-£660). Permanent.

(*e*) QUANTITY SURVEYOR. Grade V (£520-£570). Permanent.

(*f*) QUANTITY SURVEYING ASSISTANT. Grade I (£390-£435). Temporary.

PLANNING OFFICERS.

(*g*) SENIOR ASSISTANT PLANNING OFFICER. Grade VI (£595-£660). Permanent.

(*h*) ASSISTANT PLANNING OFFICERS. Grade V (£520-£570). Permanent.

(*i*) ASSISTANT PLANNING OFFICER. Grade IV (£480-£525). Permanent.

For appointments (*a*) good professional training, knowledge of general architectural design and experience with a Local Authority in housing schemes and the layout of estates, or design and construction of schools, is required; (*b*) and (*c*) good professional training and experience in general architectural design and construction; (*d*), (*e*) and (*f*) experience in a Quantity Surveyor's office, and in the case of (*d*) membership of the R.I.C.S. or equivalent, pre-war experience in taking-off, with ability to handle and settle large contracts with the minimum of supervision. of (*e*) capable of working-up, and (*f*) taking-off; (*g*), (*h*) and (*i*) experience in drawing up practical proposals for urban redevelopment, qualified for A.M.T.P.I., and preferably also a qualification in architecture, engineering or surveying.

Application forms obtainable from L. Berger, Dip.Arch., A.R.I.B.A., Borough Architect, Civic Centre, Southampton, returnable by 7th January, 1949. 1164

ARCHITECTURAL AND HOUSING
CITY OF LIVERPOOL.
DEPARTMENT.

Applications are invited for the following appointments :—

QUANTITY SURVEYOR'S SECTION.

(*a*) ONE SENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade VIII, £685-£760.

ARCHITECTURAL (HOUSING) SECTION.

(*b*) TWO ASSISTANT ARCHITECTS. A.P.T., Grade VI, £595-£660.

(*c*) ONE ASSISTANT ARCHITECT. A.P.T., Grade V, £520-£570.

ARCHITECTURAL (GENERAL SCHOOLS, etc.) SECTION.

(*d*) ONE ASSISTANT ARCHITECT. A.P.T., Grade VI, £595-£660.

(*e*) ONE STRUCTURAL STEEL ENGINEER. A.P.T., Grade V, £520-£570.

ARCHITECTURAL (REDEVELOPMENT) SECTION.

(*f*) ONE ASSISTANT ARCHITECT. A.P.T., Grade VI, £595-£660.

(*g*) ONE ASSISTANT ARCHITECT. A.P.T., Grade V, £520-£570.

(*h*) ONE ASSISTANT ARCHITECT. A.P.T., Grade IV, £480-£525.

Candidates for (*a*) must be members or prospective members of the R.I.C.S. (Quantities Section), with an extensive experience in preparing Bills of Quantities, interim valuations, settlement of final accounts, and estimating for all classes of Building and Road and Sewer Works. They should be capable of supervising junior staff, and experience in Local Government Service is desirable but not essential.

Candidates for (*b*) and (*c*) should have had experience, preferably in Housing, in Local or Central Government Service.

Candidates for

(*d*) Experience preferably in the design and erection of school buildings and general architectural practice.

(*e*) Experience in design and detailed working drawings for steel and reinforced concrete construction, and used to working in close co-operation with the Architect in charge of work.

For positions (*f*), (*g*) and (*h*) Town Planning experience and aptitude for design, layouts, and perspectives.

Candidates for Architectural appointments must also be members of the Royal Institute of British Architects.

Those candidates who wish to be considered for more than one of the vacancies should state so in their applications.

All the appointments will be superannuable and subject to the Standing Orders of the City Council, which include requirements to pass a medical examination. and to devote whole time to the duties of the appointments.

Form of application may be obtained from and must be returned to the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2, endorsed "Application," adding the title of the post or posts applied for as set out (*a*) to (*h*) above, accompanied by copies of three recent testimonials, not later than 29th December, 1948.

Canvassing disqualifies.

THOMAS ALKER.
Town Clerk.

Liverpool.
December, 1948. 1114

BOROUGH OF CAMBRIDGE.
BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments in connection with school and general architectural work :—

(*a*) ONE ARCHITECTURAL ASSISTANT, Grade III. Salary £450-£495 per annum.

(*b*) ONE ARCHITECTURAL ASSISTANT, Grade I. Salary £390-£435 per annum.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the Scheme of Conditions of Service of the National Joint Council for Local Authorities. Each appointment will be subject to one month's notice in writing on either side.

Applications, endorsed appropriately, stating age, married or single, qualifications, training and experience, and giving particulars of salaries of present and past appointments and the names of three persons to whom reference may be made, must be delivered to T. V. Burrows, A.M.I.C.E., Borough Surveyor, not later than Saturday, 8th January, 1949.

C. H. KEMP.
Town Clerk.

The Guildhall, Cambridge. 1099

COUNTY BOROUGH OF NORTHAMPTON.
BOROUGH ARCHITECT'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS.

(*a*) Two in A.P.T., III (£450-£495).

(*b*) Two in Miscellaneous, I (£315-£360).

Particulars of the above appointments and forms of application, which must be returned by 31st December, may be obtained from the undersigned.

Candidates for appointments (*a*) should be experienced in the preparation of working drawings and estimates and in the writing of specifications for minor works of a general character.

Candidates for appointments (*b*) should have had experience in the general duties of an Architect's office and should be capable of producing working drawings and details under supervision.

The work in hand includes new schools, flats, housing, and a general variety of miscellaneous works, and opportunities will be available for experience in all branches of the profession.

C. E. VIVIAN ROWE.
Town Clerk.

Guildhall, Northampton. 1141

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.
DIVISIONAL ASSISTANT ARCHITECT.
TYNESIDE AREA.

Applications are invited for the appointment of Divisional Assistant Architect, on the permanent staff of the Architect to the Board. Salary will be in accordance with Grade VIII of the A.P.T. Division of the National Scales, *i.e.*, £685 per annum, rising by annual increments of £25 per annum to £760 per annum.

Candidates must be Members of the Royal Institute of British Architects, should be well versed in the design and construction of major buildings, and should possess a thorough knowledge of modern building practice and procedure. Previous hospital experience is desirable but not essential.

The person appointed will be the representative of the Board's Architect in the Tyneside area, and will be expected to reside in the district. The work will be principally administrative and will involve close liaison with the Hospital Management Committees in the Area and with "panel" architects carrying out works on behalf of the Board.

Application, stating (1) name and full address, (2) age and whether married, (3) degrees and professional qualifications, (4) experience, (5) present appointment and salary, (6) war service, (7) date available if appointed, (8) names and addresses of three referees, should be forwarded to the Secretary to the Board "Dunira," Osborne Road, Newcastle-upon-Tyne, 2, not later than Wednesday, 29th December, 1948. 1065

COUNTY BOROUGH OF HUDDERSFIELD.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments :—

(1) ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with Grade A.P.T., IV, of the National Scales of Salaries (£480 per annum, rising to £525 by annual increments of £15).

(2) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T., I, of the National Scales of Salaries (£390 per annum, rising to £435 per annum by annual increments of £15).

Applicants for the position of Assistant Quantity Surveyor must have experience in the preparation of Bills of Quantities, Specifications, Estimates, and the settlement of Final Accounts, and preference will be given to Associates of the Royal Institute of Chartered Surveyors.

Applicants for the position of Architectural Assistant should have received the recognized training, and be neat and expeditious draughtsmen, with a sound knowledge of construction.

Housing accommodation will be made available if required.

The appointment will be subject to one month's notice on either side, expiring at the end of a calendar month, to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, suitably endorsed and accompanied by copies of not more than three recent testimonials, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than the 31st December, 1948.

Canvassing, directly or indirectly, will disqualify.

HARRY BANN,
Town Clerk.

Town Hall, Huddersfield.
December, 1948. 1129

LONDON COUNTY COUNCIL.
PLANNING STAFF.

Vacancies in the following grades (some permanent) :—

ASSISTANT SENIOR PLANNING OFFICER. £1,000 to £1,200 a year.

PLANNING OFFICER, Grade I. £840 to £960 a year.

PLANNING OFFICER, Grade II. £700 to £840 a year.

PLANNING OFFICER, Grade III. £550 to £700 a year.

TECHNICAL ASSISTANT (*a*). £440 to £580 a year.

TECHNICAL ASSISTANT (*b*). 55s. to 167s. 6d. a week.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (*a*) Research; (*b*) Development Plan, and Survey; (*c*) Development applications, or (*d*) Reconstruction Areas and detailed planning.

For the junior positions, planning experience is not essential, but candidates should have a good general education, an aptitude for drawing, and an interest in town planning.

Full particulars and form of application obtainable from the Architect to the Council (P), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). (2212) 899

NATIONAL COAL BOARD invite applications for vacancies for ARCHITECTURAL ASSISTANTS in London and the Provinces. Applicants should be able to prepare sketch plans and working drawings from rough sketches and have a good knowledge of construction. Preference will be given to candidates who have passed the Intermediate examination of the R.I.B.A. Apply in writing, giving full particulars (in chronological order) of date of birth, education, qualifications, experience (with dates) and present salary, stating choice of localities in which prepared to serve, to National Coal Board, Establishments (General) Branch, Hobart House, Grosvenor Place, London, S.W.1, marking envelope T/114. Original testimonials should *not* be forwarded. Final closing date 10th January, 1949. 1175

METROPOLITAN BOROUGH OF HAMPSTEAD.
ARCHITECTURAL ASSISTANT
(TEMPORARY).

Applications are invited for the appointment of an Architectural Assistant on the Temporary Staff of the Housing Architect's Section of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade IV of A.P.T. Division, National Scales of Salaries, £480 to £525 per annum, plus £30 London weighting. Age limit: 45 years of age on the 1st January, 1949.

Applicants should be suitably qualified, preferably Members of the Royal Institute of British Architects, and should have experience in general Architectural work, including house planning and design, adaptations and conversions, and be able to prepare working drawings and specifications.

Applications, stating (*a*) age, (*b*) examination qualifications, (*c*) present and past appointments with dates and salaries, (*d*) detailed particulars of experience, and accompanied by copies of three recent testimonials, must be delivered to me in a sealed envelope endorsed "Architectural Assistant," not later than 12 noon on Friday, 7th January, 1949.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

The conditions of service are those in the National Scheme for Local Government Officers, and the appointment will be terminable by one calendar month's notice on either side.

Canvassing will disqualify.

P. H. HARROLD,
Town Clerk.

Town Hall, Haverstock Hill, N.W.3.
December, 1948. 1170

CITY AND COUNTY OF CANTERBURY.

Applications are invited for the position of TOWN PLANNING ASSISTANT, in the office of the City Surveyor. Applicants must have had experience in the carrying out of basic surveys, the replanning of built-up areas, and have sound knowledge of control and development procedure. Preference will be given to candidates possessing a recognized planning qualification. The salary will be in accordance with A.P.T., Grade V (A) (£550-£610). The appointment is to the permanent staff under the direction of the Joint Planning Officers, is subject to one month's notice on either side, and to a successful medical examination. Arrangements are being made for housing accommodation. Applications, endorsed "Town Planning Assistant," giving age, full particulars of experience and qualifications, and names and addresses of two persons to whom reference may be made, should be received by Mr. H. M. Enderby, O.B.E., M.I.Mun.E., City Surveyor and Joint Planning Officer, not later than the 31st December, 1948

J. BOYLE.
Town Clerk.

Municipal Buildings, Canterbury.
December, 1948. 1103

BOROUGH OF EALING.
ARCHITECTURAL ASSISTANTS—BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

(*a*) ARCHITECTURAL ASSISTANT. Grade VI, A.P.T. Division (£625-£690 inclusive per annum).

(*b*) ARCHITECTURAL ASSISTANT. Grade V, A.P.T. Division (£550-£600 inclusive per annum).

Applicants must be Associate Members of the Royal Institute of British Architects, preferably with Municipal experience.

Forms of application, together with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 3rd January, 1949.

R. J. COPE-BROWN,
Town Clerk.

Town Hall, Ealing, W.5. 1162

BOROUGH OF SWINDON.

Applications are invited for the following appointments on the staff of the Borough Architect and Planning Officer:—

(*a*) ARCHITECTURAL ASSISTANT, at a salary in accordance with A.P.T., Grade III (£450-£495), of the National Scales. Applicants must have had experience in housing and the general architectural work of a Local Authority, and should be Associate Members of the Royal Institute of British Architects.

(*b*) GENERAL CLERK, at a salary in accordance with the General Division of the National Scales. Applicants, who should be under 21 years of age and hold the General Schools Certificate, will be employed in the Quantity Surveying Section of the Department, and will have opportunity for training in this work.

The above appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination, and will be determinable on one month's notice on either side.

(*c*) TEMPORARY ARCHITECTURAL ASSISTANT, at a salary of £7 per week inclusive, for a period not exceeding two years. Applicants should have had experience in the general architectural work of a Local Authority.

Applications, on forms obtainable from me, must be returned not later than 1st January, 1949.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN,
Town Clerk.

Civic Offices, Swindon.
8th December, 1948. 1127

COUNTY COUNCIL OF THE COUNTY OF LANARK.
TOWN AND COUNTRY PLANNING.

Applications are invited for the appointment of ASSISTANT PLANNING OFFICER, on the Town and Country Planning Staff.

Candidates must possess one or more of the following qualifications:—

University Degree in Civil Engineering or Architecture, A.M.I.C.E., A.M.I.Mun.E., A.R.I.C.S., A.R.I.B.A., A.M.T.P.I.

They must also have a wide and practical experience in the preparation of planning schemes for rural and populous areas, and have a thorough knowledge of the various Acts and Orders relating to Town and Country Planning. The successful candidate will have to supervise the drawing office and be responsible to the County Planning Officer for the preparation of development plans for the area.

The consolidated salary scale is £710 per annum, rising by annual increments of £25 to £810.

The appointment is subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, giving full particulars of age, qualifications and experience, together with copies of three recent testimonials, should be forwarded to the County Planning Officer, 19, Auchingramont Road, Hamilton, to be received not later than 31st December, 1948. Canvassing will disqualify.

WM. C. BROWNLIE,
County Clerk.

Lanarkshire House, 191, Ingram Street,
Glasgow, C. 1.
15th December, 1948. 1183

DEVON COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent establishment of the County Architect's Department, at consolidated salaries, in accordance with the grades of, and subject to the scheme of conditions of service of the National Joint Council for Local Authorities' Administrative, Professional and Technical Services.

(*a*) ONE ASSISTANT ARCHITECT. A.P.T., Grade VI. Commencing salary £595 p.a., rising by three annual increments (£20×£20×£25) to £660 p.a.

(*b*) TWO ASSISTANT ARCHITECTS. A.P.T., Grade V. Commencing salary £520 p.a., rising by three annual increments (£15×£15×£20) to £570 p.a.

(*c*) ONE ASSISTANT ARCHITECT. A.P.T., Grade III. Commencing salary £450 p.a., rising by three annual increments (£15×£15×£15) to £495 p.a.

(*d*) ONE ASSISTANT ARCHITECT. A.P.T., Grade I. Commencing salary £390 p.a., rising by three annual increments (£15×£15×£15) to £435 p.a.

Candidates for (*a*) and (*b*) must be Associates of the R.I.B.A., and possess a sound experience in the design and maintenance of all types of buildings carried out by a large Local Authority; they must be fully conversant with the Building Regulations of the Education Act, 1944, and the Regulations for Police Buildings; and possess organizing ability and experience in the management of building contracts.

For (*c*) candidates must have a good training in architecture, and preference will be given to those who have passed the Intermediate examination of the R.I.B.A., and for (*d*) candidates with experience of local authority architectural work will be preferred.

Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Saturday, the 15th January, 1949.

The appointments will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

H. A. DAVIS,
Clerk of the County Council.

The Castle, Exeter.
15th December, 1948. 1182

COUNTY BOROUGH OF HUDDERSFIELD.
BOROUGH ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECT.

Applications are invited for the appointment of an Assistant Architect, at a salary in accordance with Grade A.P.T., V, of the National Scales of Salaries (£520-£570 per annum).

Candidates must be registered Architects, and preference will be given to Associate Members of the R.I.B.A., who have had good experience in the design and construction of modern buildings.

The appointment will be subject to one month's notice on either side, expiring at the end of a calendar month, and to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Housing accommodation will be provided if necessary.

Applications, endorsed "Assistant Architect," accompanied by copies of not more than three recent testimonials, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than the 4th January, 1949.

Canvassing, directly or indirectly, will disqualify.

HARRY BANN,
Town Clerk.

Town Hall, Huddersfield.
December, 1948. 1188

STAFFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF PLANNING ASSISTANT—GRADE IV.

Applications are invited for the appointment of Planning Assistant, Grade IV (salary £480 per annum, rising by annual increments of £15 to a maximum of £525 per annum), in the Central Area Planning Office of the County Planning Department, County Buildings, Stafford.

The person appointed will be mainly engaged on the preparation of outline and development plans and in reporting on proposals for development.

Applicants should have had training in an Architect's, Engineer's, Surveyor's or Planning Office, and should have passed the Intermediate examination of the Town Planning Institute or an equivalent examination of the other professions named.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937; the National Joint Council's Scheme of Conditions of Service as adopted by the County Council; the passing of a medical examination; and to one month's notice on either side.

Canvassing, directly or indirectly, will be deemed a disqualification, and relationship to any Member or Senior Officer of the County Council must be disclosed.

Applications should give details of age, education, technical training, qualifications, present and previous appointments and experience, and should include copies of two recent testimonials and the names of two other persons to whom reference can be made. They should be addressed to the County Planning Officer, County Buildings, Stafford, to be received not later than Saturday, the 15th January, 1949.

T. H. EVANS,
Clerk of the County Council.

County Buildings, Stafford.
15th December, 1948. 1181

COUNTY BOROUGH OF WOLVERHAMPTON.

Applications are invited from suitably qualified persons for the appointment of SENIOR ARCHITECTURAL ASSISTANT, in the Architectural Section of the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade V, of the National Scale of Salaries, £520-£570 per annum.

Preference will be given to applicants who have passed the Final or Intermediate examination of the R.I.B.A.

The appointment is terminable by one month's notice on either side, and is subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Applications, stating age, qualifications and full details of experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than the 6th January, 1949, in a sealed envelope, which must be endorsed "Senior Architectural Assistant."

J. BROCK ALLON,
Town Clerk.

Town Hall, Wolverhampton.
14th December, 1948. 1179

CITY OF COVENTRY.
PLANNING DEPARTMENT.

Applications are invited for the following appointments on the permanent staff of the Planning Department:—

(*a*) TWO CHIEF PLANNING ASSISTANTS. Special Grade (£710-£860).

(*b*) FOUR SENIOR PLANNING ASSISTANTS. A.P.T., VIII (£685-£760).

(*c*) ONE SENIOR TECHNICAL PLANNING ASSISTANT. A.P.T., VII (£635-£710).

(*d*) FOUR PLANNING ASSISTANTS. A.P.T., Va (£550-£610).

(*e*) FOUR PLANNING ASSISTANTS. A.P.T., IV (£480-£525).

(*f*) FOUR JUNIOR PLANNING ASSISTANTS. A.P.T., I-III (£390-£495).

(*g*) TWO STUDENT PLANNERS. General Division, plus merit increments for Degrees (maximum £385).

(*h*) ONE PLANNING ENFORCEMENT OFFICER. A.P.T., III (£450-£495).

The appointments are subject to the following: (*a*) National Scheme for Local Government Officers, as amended by the Coventry Corporation; (*b*) Local Government Superannuation Act, 1937, as amended *re* annuities for widows by the Coventry Corporation Act, 1936, and the Coventry Municipal Officers' Widows' and Orphans' Pension Fund; (*c*) medical examination; (*d*) one calendar month's notice on either side.

HOUSING: THE CITY COUNCIL HAVE ACCEPTED THE PRINCIPLE OF THE PROVISION, IN CERTAIN CASES, OF HOUSING ACCOMMODATION FOR KEY PERSONNEL.

Applications, suitably endorsed, stating age and, in date order education, training, technical qualifications, experience, present position and salary, together with the names of three referees, to be delivered to the Joint Planning Officers not later than 14th January, 1949.

E. H. FORD, O.B.E., M.Inst.C.E., M.Inst.Mun.E., M.T.P.I.,
D. E. E. GIBSON, M.A., A.R.I.B.A., A.M.T.P.I.,
Joint Planning Officers.

Council House, Coventry.
11th December, 1948. 1163

CITY OF NORWICH.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment on the permanent staff of ASSISTANT ARCHITECTS, in Grade VI of A.P.T., Division (£595-£660 per annum).

Applicants to be well trained and to have good general experience. Other factors being equal, preference will be given to those having a recognized Architectural qualification and previous service with a Local Authority.

The appointments will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937.

The successful candidates will be required to pass a medical examination.

Housing accommodation can be made available.

Candidates who, to their knowledge, are related to any member or officer of the Council shall, when making application for the appointment, disclose the relationship in writing to the Town Clerk. A candidate who fails to do so shall be disqualified for the appointment, and if appointed, shall be liable to dismissal without notice.

Canvassing of members of the Council or of any Committee, directly or indirectly, shall disqualify the candidate for the appointment.

Applications, stating age, training, experience, qualifications and other relative information, together with copies of three recent testimonials, must be received by the City Architect, City Hall, Norwich, not later than Monday, the 3rd January, 1949. 1186

EAST BARNET URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments :—

(*a*) CHIEF ARCHITECTURAL ASSISTANT—GRADE VI (£595-£660 consolidated), plus the appropriate London weighting and car allowance for a 10 h.p. car or under, in accordance with the National Joint Council's Scale.

Housing accommodation will be rented to the successful applicant, if deemed necessary. Applicants should hold an architectural qualification by examination, and preference will be given to those having previous experience with a Local Authority.

(*b*) ENGINEERING ASSISTANT—GRADE III (£450-£495 consolidated), plus the appropriate London weighting.

Applicants should be qualified by examination, and should have had previous experience with a Local Authority.

Each appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Forms of application should be obtained from the undersigned and returned by not later than Friday, 7th January, 1949.

C. M. BARNES, O.B.E., M.I.MUN.E., F.R.S.I.,
Engineer and Surveyor.

Town Hall, Station Road, New Barnet, Hertfordshire. 1169

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in the City Engineer's Department :—

(*a*) SENIOR ARCHITECTURAL ASSISTANT. Grade A.P.T., VI (£595-£660).

(*b*) ARCHITECTURAL ASSISTANT. Grade A.P.T., II (£420-£465).

Applicants for appointment (*a*) should be A.R.I.B.A., and should have had Municipal experience.

The appointments would be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed with the title of the appropriate appointment, stating age, qualifications, present and previous appointments and details of experience, together with copies of two testimonials, should be sent to me not later than Saturday, the 15th January, 1949.

The Council will give favourable consideration to the provision of housing accommodation to the successful applicant for appointment (*a*).

W. S. DES FORGES,
Town Clerk.

Town Hall, Wakefield.
December, 1948. 1191

Available only to persons excepted from the Control of Engagement Order, 1947, No. 2021.

BOROUGH OF DAGENHAM.
CHIEF HEATING AND ELECTRICAL ENGINEERING ASSISTANT.

The Council invite applications for this technical appointment on the staff of the Borough Engineer and Surveyor (Grade V, £520-£570 p.a., plus London weighting), from members (by examination) of either (preferably both) the Inst. of Heating and Ventilating Engineers, or the Inst. Electrical Engineers, to supervise and/or advise on all heating, ventilating and electrical work carried out by or for the Council. Application forms and full particulars are obtainable from the Borough Engineer. Closing date 10th January, 1949. Canvassing disqualifies. The Council are unable to offer housing accommodation.

KEITH LAUDER,
Town Clerk.

Civic Centre, Dagenham. 1160

METROPOLITAN BOROUGH OF PADDINGTON.
HOUSING DEPARTMENT.

Appointments of :—

(*a*) QUANTITY SURVEYOR'S ASSISTANT.

(*b*) SECOND SURVEYING ASSISTANT (ESTIMATING).

Applications are invited for the above appointments on the temporary establishment of the Housing Department, Architectural Section (which also deals with all Council's building work).

(*a*) Quantity Surveyor's Assistant : The salary for this appointment will be up to £650 per annum, according to qualifications and experience.

The person appointed will be required to show evidence of special ability and experience as a "taker-off" for all types of building, alterations and additions, and general building work as undertaken by a Local Authority. In addition, he should be familiar with and will be required to undertake "working up" in all stages, specification writing, measurement of work on site, valuations for interim certificates, making up of final accounts, and the preparation of cost statistics. All things being equal, preference will be given to applicants who are members of an appropriate recognized professional body.

(*b*) Second Surveying Assistant (Estimating) : This appointment will be at a salary equivalent to Grades I and II of the A.P.T. Division of the National Joint Council's Scheme of conditions of Service (£390 to £465 per annum), plus London "weighting," according to age.

Applicants should have experience in all branches of building work, particularly in connection with the preparation of estimates for alterations to and maintenance of housing property and public buildings, including the supervision of Contract work and the preparation of final accounts. Preference will be given to candidates who have passed or are about to sit for the Intermediate examination of the Royal Institute of Chartered Surveyors (Building or Quantities Section).

Both appointments will be subject to one month's notice on either side, and to the provisions of the Council's Superannuation Acts, Standing Orders and resolutions affecting temporary officers.

Applications for both appointments, stating age, experience and qualifications, present and previous appointments (and present salary), together with the names of three authorities or persons from whom references can be obtained, should be delivered to the undersigned, in an envelope clearly indicating the appointment for which application is being made, not later than noon on Wednesday, 5th January, 1949.

Canvassing, directly or indirectly, will disqualify.

W. H. BENTLEY,
Town Clerk.

Town Hall, Paddington, London, W.2,
16th December, 1948. 1159

LONDON COUNTY COUNCIL.
ARCHITECTS' DEPARTMENT.
MAINTENANCE AND IMPROVEMENTS DIVISION.

ARCHITECTS and SURVEYORS are required to take charge of the staff and work of area offices carrying out maintenance and improvements work at the Council's Schools and other buildings. Candidates should be qualified as A.R.I.B.A. or A.R.I.C.S., and should be experienced in adaptation and alteration work. A sound knowledge of maintenance work on a schedule basis will be an advantage.

Commencing salary acording to experience and qualifications within the scale £700×£35—£840. Some positions will be permanent, and others temporary in the first instance.

Application forms and further particulars from the Architect (P/M), County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed envelope. Closing date 20th January, 1949. Canvassing disqualifies. (2306) 1161

WESTMORLAND COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of DEPUTY COUNTY ARCHITECT. Salary £760×£50—£860.

Applicants must be well qualified, have had good and extensive experience of contemporary architectural design and construction, and be capable of assuming full responsibility for the organization and supervision of the day-to-day work of the Department, which is concerned mainly with new school, police, health and welfare building work, and general maintenance of County buildings.

The appointment will be subject to the terms and conditions of service of the National Joint Council and to the Local Government Superannuation Act, 1937. The successful candidate must pass a medical examination. The post will be subject to two month's notice on either side.

Applications, giving particulars in the following order, name, age, married or single, education, technical training, qualifications, present salary, present and previous appointments with dates, together with full particulars of experience under the heads mentioned in the second paragraph, should be accompanied by one recent testimonial and the names of two other people to whom reference can be made. They should be sent to R. H. Crompton, A.R.I.B.A., A.M.T.P.I., County Architect, County Hall, Kendal, to reach him not later than 7th January, 1949.

H. B. GREENWOOD,
Clerk of the County Council.

County Hall, Kendal.
14th December, 1948. 1178

WELSH REGIONAL HOSPITAL BOARD.

Applications are invited for the appointment of TWO ASSISTANT ARCHITECTS. The salary will be in accordance with Grade VIII of the A.P.T. Division of the National Scale (£685 p.a. ×£25×£760 p.a.). Candidates must be Members of the Royal Institute of British Architects, and have had responsible experience in the design and layout of hospitals and ancillary buildings.

Applications, stating age, qualifications and experience, including types of hospital buildings candidates have been associated with, together with the names of two referees, should be addressed to the undersigned so as to reach him not later than January 3, 1949.

R. E. REESE,
Secretary.

The Temple of Peace and Health,
Cathays Park, Cardiff. 1189

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

PROGRESSIVE appointment, with prospect of early Partnership, offered to capable and energetic qualified ARCHITECTURAL ASSISTANT (30/40) in private general practice near London (E.), with country connections; design, surveying and levelling, and some knowledge of quantities; minimum salary £500. Box 846.

SENIOR ASSISTANT required; capable of handling contracts from sketch plan stage to completion; knowledge of industrial work an advantage; salary in accordance with present day standards. Apply in writing to J. Stanley Beard, Bennett & Partners, 101-103, Baker Street, W.1, giving particulars of experience, etc. 987

JUNIOR ARCHITECTURAL ASSISTANT required in busy West End office; good prospects. Apply, stating age, experience, and salary required, to J. Stanley Beard, Bennett & Partners, 101-3, Baker Street, W.1. 1036

PRACTICAL SURVEYOR, aged about 30, required for property management and building repairs with large London company; knowledge of dilapidations and quantities essential. State age, experience, and salary to Box 1035.

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., have vacancies in their Manchester Architect's Department for ASSISTANT QUANTITY SURVEYORS; should be experienced in preparing Bills of Quantities, measuring work, and adjusting variations on Contracts; the appointments are permanent, and offer good prospects of promotion for competent Assistants; successful candidates will be required to pass a medical examination for entry into Compulsory Superannuation Scheme. Applications, stating age, qualifications, experience, and salary required, with copies only of testimonials, to C.W.S., Ltd., Architect's Department, 1, Balloon Street, Manchester, 4. 1126

CAPABLE ASSISTANT required for general practice in Central London; must be experienced in the preparation of working drawings, specifications, building surveys and levelling. Salary and full particulars to Box 1133.

THE Milk Marketing Board have a vacancy for an ASSISTANT in their Architect's Department at Thames Ditton; the work will be mainly in connection with the preparation of Specifications and the supervision of such work whilst in progress; salary £550 per annum. Applications, giving full details of age, qualifications and previous experience, should be addressed to the Chief Administrative Officer, Milk Marketing Board, Thames Ditton, Surrey. 1101

JUNIOR ARCHITECTURAL ASSISTANTS are required to fill vacancies for permanent pensionable positions in the Head Office of the Premises Department, Ind Coope & Allsopp, Ltd., Burton-on-Trent; applicants should have passed the Intermediate examination of the Royal Institute of British Architects; experience in the design, decoration and furnishing of licensed premises and Breweries would be an added asset, but is not insisted upon; they will also be required to pass a medical examination and contribute to the generous Staff Superannuation Scheme in force; a five-day working week is in operation, and amenities offered include excellent canteen facilities and sports ground; commencing salaries will be £350 per annum, plus cost-of-living bonus of £78. Particulars of training, experience, past and present appointments and qualifications, together with testimonies, and stating age, date available, and whether married or single, to be sent to the Manager, Premises Department, Ind Coope & Allsopp, Ltd., 148, Station Street, Burton-on-Trent. While no housing accommodation can be immediately offered to successful applicants, the Company will assist as far as possible. 1107

ASSISTANT required by firm of Chartered Architects in Victoria area. Also vacancy for JUNIOR up to Inter. standard; small office; varied and interesting work. Box 1135.

MANCHESTER.—ASSISTANT ARCHITECT and ARCHITECT'S ASSISTANT required for general practice, including schools and housing; salary by arrangement. Taylor & Young, 196, Oxford Road, Manchester, 13. 1111

ARCHITECTURAL ASSISTANT (single) required for country town office; office trained; good draughtsman; car owner-driver; experienced in outside supervision and specifications; salary £450 per annum, rising. Details to Box 1108.

SENIOR ARCHITECTURAL ASSISTANT required for permanent pensionable position in the London office of Premises Department, Ind Coope & Allsopp, Ltd.; applicants should be either Associates of the Royal Institute of British Architects or trained at a recognized School of Architecture, and should have a good general experience in design and construction and be capable of taking charge of jobs from the initiation of sketch plans to completion of the work, including supervision of work on the site; experience in the design, decoration and furnishing of licensed Premises would be an added asset, but is not insisted upon; they will also be required to pass a medical examination and to contribute to the generous Staff Superannuation Scheme in force; a five-day working week is in operation; commencing salary will be up to £500 p.a., plus cost-of-living bonus of £100, according to qualifications and experience; allowances include all travelling expenses and season ticket from place of residence. Particulars of training, experience, past and present appointments and qualifications, together with testimonies, and stating age, date available, and whether married or single, to be sent to the Chief Architect, Premises Department (S.E. Area), 39/45, Pancras Road, London, N.W.1. 1123

ARCHITECTURAL ASSISTANT required; Inter. standard; must be capable of carrying out surveys and preparing working drawings from preliminary sketches. Apply, stating experience and salary required, to Thomas F. Ford, F.R.I.B.A., 199, Victoria Street, Westminster, S.W.1. 1134

COMPETENT ASSISTANT required in the Architect's Department of a Midland Multiple Company. Applicants are requested to give particulars of training, qualifications, age, and salary required, to Box 948.

ASSISTANT required in East Midlands office, with experience of Hospital work; salary £400-£650, according to qualifications and experience; accommodation available. Box 1152.

DRAUGHTSMAN (Architectural) for design and development of building schemes; large Midlands factory; experience in architectural development work necessary; good opening R.I.B.A. student. Box 1150.

DRAUGHTSMEN required, efficient and capable of handling lay-outs and details of Precast Concrete Schemes by large organization in Slough (Bucks) area; 5-day week, with staff transport available. Write, giving age, full experience, and salary required. Box 1176.

ARCHITECTURAL ASSISTANT required, with general experience; Intermediate standard or over; must be good draughtsman. Write, stating salary, experience, etc., to Fairhurst & Poppleton, F.R.I.B.A., Architects, 7, Regent Street, Barnsley. 1174

RESIDENT ARCHITECT required, who must be able to undertake and control schemes; experience in Brewery architectural work preferred, but other applicants will be considered; good prospects and salary; Superannuation Scheme; 5-day week. Applications, which will be treated in absolutely strict confidence, should be addressed to The Secretary, Geo. Adlam & Sons, Ltd., Fishponds, Bristol. 1172

DRAUGHTSMEN wanted in London office of Industrial Buildings Architects; men of suitable and considerable experience essential. Box 1173.

ARCHITECTS.—Qualified SENIOR ASSISTANT for Liverpool office; responsible post, with varied and interesting work; salary £600, or according to qualifications and experience. Box 1171.

ARCHITECTURAL and Surveying: All-round ASSISTANT required for well-established varied practice in Manchester; permanency, with view to partnership, to satisfactory applicant; state salary, etc., required. Box 1166.

ARCHITECTS, with large staff of trained Building and Measuring Surveyors, and ample office accommodation, W.C. district, are eager to form Partnership with busy firm of Architects or Surveyors short of staff. Box 1180.

LONDON Office requires Part-time SENIOR ARCHITECTURAL ASSISTANT, with modern outlook. Box 1185.

DRAUGHTSMAN required early in the New Year for West End Architect's office; must have had practical experience, and be able to prepare working drawings from sketch plans, details; good knowledge of building construction; able to survey and plot, etc. Write, stating age, experience, and salary required, to Box 1184.

ARCHITECTURAL ASSISTANT (SENIOR) wanted, to take charge of Drawing Office in the North of Scotland. Apply, stating age, experience, and salary expected, to Box 1187.

ASSISTANT required for responsible position in small but expanding Architect's offices in West End; hours 9-6, no Saturdays. JUNIOR, Intermediate standard, also required. Write, stating age, experience, salary, etc., Box 1190.

JUNIOR ASSISTANT.—Architects require keen student R.I.B.A.; working drawings, etc.; mainly industrial, commercial and domestic. Watson & Johnson, 5, Victoria Sq., Birmingham. 1193

Architectural Appointments Wanted

APPLICANT, with good experience and references, seeks employment as CLERK OF WORKS or supervising officer, with a progressive firm of Building Contractors or Interior Decorators. Box 201.

ARCHITECT AND SURVEYOR (under 40), 21 years' varied experience, including property maintenance, disengaged, married with two children, seeks post; would accept £600 p.a. with free accommodation, or £700-£900 without. Brown, 16, Highbury Place, N.5 (CAN. 2145). 214

ARCHITECT'S ASSISTANT, 4 years' office experience, desires position; Kent or Sussex preferred. Box 215.

POSITION of confidence and co-operation desired, preferably within easy reach S.E. London; appropriate to 11 years' varied experience of Architectural Private Practice in connection with all types of dwellings, housing schemes, factory, shop and store work, including surveys, schedules, specifications, reports, valuations and general routine and regulation (War Damage and Town and Country Planning Acts); Thesis stage R.I.B.A. member; age 29 years; intimate knowledge of design fundamentals, productive of successful versatility of styles; good degree of ingenuity, adaptability and business knowledge. Box 217.

Other Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

SALES MANAGER required for expanding company making Precast Concrete Structures. Men, aged 30 to 40, with managerial ability and experience in the building industry are invited to write fully stating qualifications and experience, to Box 1091.

QUALIFIED CIVIL ENGINEER required for senior position with small firm of consultants in Norfolk; age 28-35; car owner-driver; land drainage experience essential; salary £600, rising to £800 per annum. Write, with full details, to Box 1109.

Services Offered

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PART-TIME Assistance offered to Architects for building and land surveys, levelling, contouring, etc., for housing schemes, school sites, factory sites, etc.; own car and equipment. Box 973.

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YOUNG Lady, qualifying this year, requires position as ASSISTANT ARCHITECT in Central London office. Apply Miss Ladd, 6, Broadhurst Gardens, Reigate, Surrey. Tel.: Reigate 3309. 1144

A. R.I.B.A. offers spare-time assistance; working drawings, specifications, etc.; London area. Box 1165.

EVENING and week-end services offered; London area; preparation of working drawings, details, tracings, surveys; team of two senior assistants. Box 1192.

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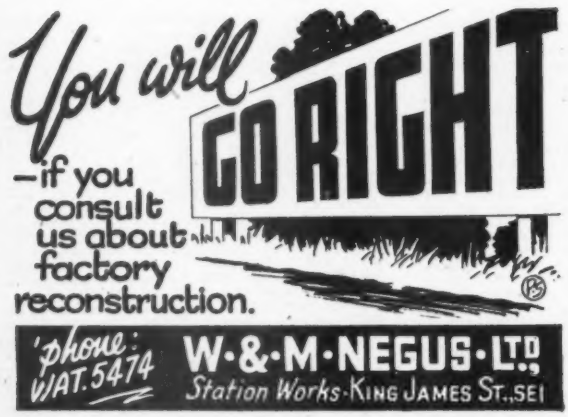
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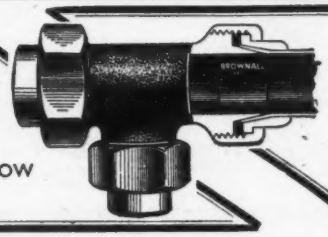
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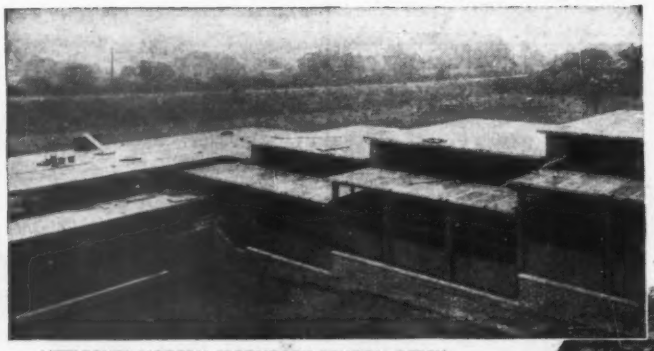
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T.I

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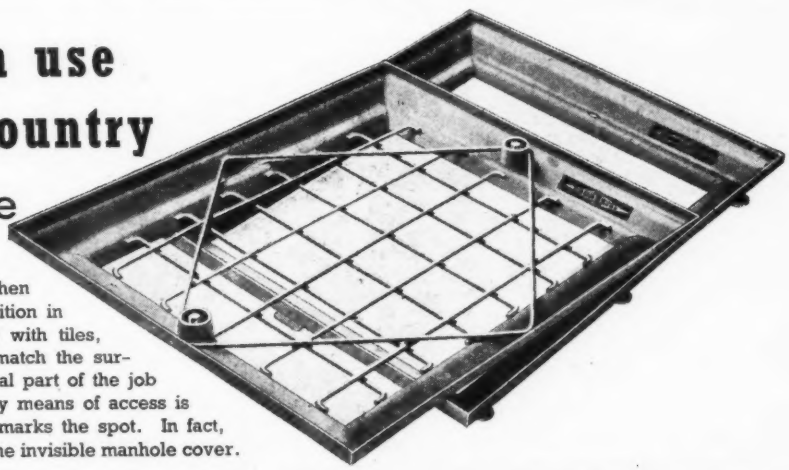
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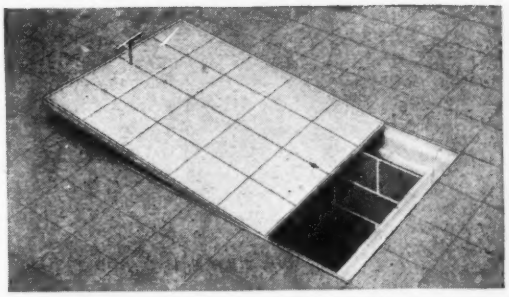
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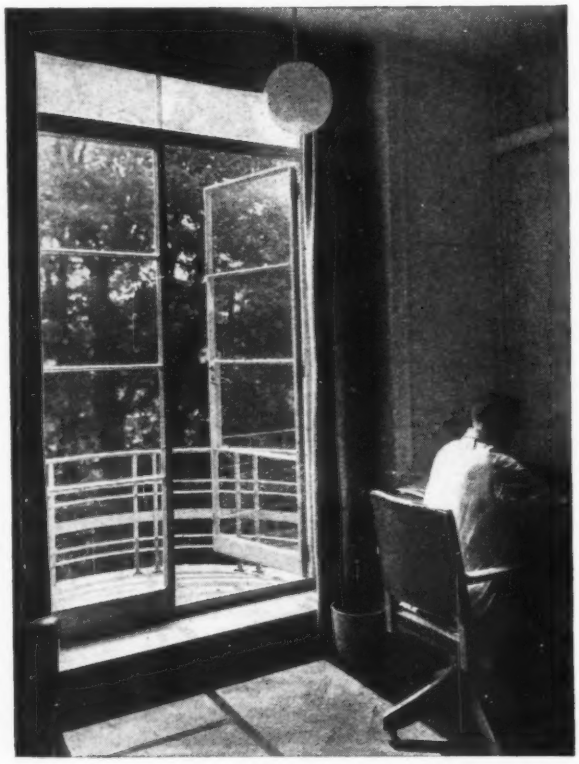


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